

SPICED

Full-Stack Web Development

Program curriculum



"Beyond expectations. I landed a job after just 2 weeks."

Ingrid, now at Ecocode

"If you work hard and you're prepared to leave your comfort zone, you'll be amazed at what you're capable of."

Stephan, now at Grover

"A great place to work, a cohort full of like-minded people and great teachers... SPICED was such a great experience."

Julian, now at Pendula Resource Management



Hello!

Before we begin to tell you about our Full-Stack Web Development program, we'd like to thank you for your interest in SPICED Academy.

We started SPICED to provide people with a modern approach to lifelong learning and to allow you - at any point in your life - to learn, transform and become the person you want to be.

If you have any questions about the course feel free to get in touch with us at info@spiced-academy.com. We'll be happy to help.

- Frederik and the SPICED team



Contents

- Introduction
- Detailed Curriculum
 - Prep Course
 - On-Site Course
- Outcomes
- Live, Work and Study in Berlin
- Contact



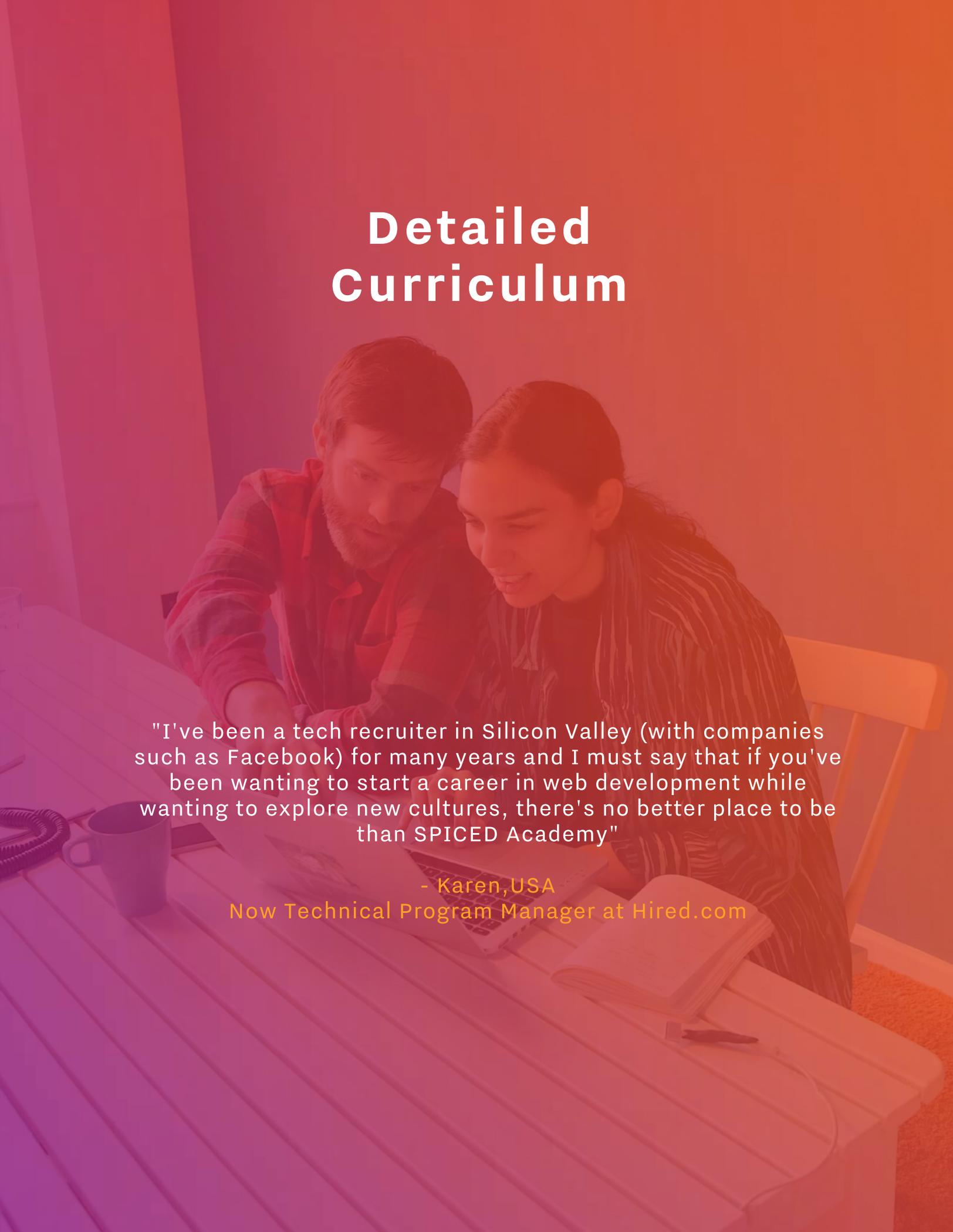
Introduction

Our Full-Stack Web Development Program is a full-time, 12 week intensive course based on-site in Berlin. In intimate cohorts you will develop all the skills needed to begin a successful career in software engineering - one of the most in-demand, exciting career paths in tech.

Our rigorous course will hone your abilities in Javascript, HTML, CSS, jQuery, MV Frameworks, Node.js, SQL and more. You will complete multiple projects individually and in teams, allowing you to learn in the most effective way there is: by doing.

It's not all about code, either. You will gain indispensable skills in complex problem solving, critical thinking and effective communication. A significant part of the course is focused on career development, meaning you will learn interview techniques, get resume help, career guidance, LinkedIn tips and much more.

Detailed Curriculum

A man and a woman are sitting at a desk, looking at a laptop screen together. The man is on the left, leaning over the desk, and the woman is on the right, sitting in a chair. They appear to be in a collaborative work environment. The background is a plain wall, and there is a cup on the desk to the left of the laptop.

"I've been a tech recruiter in Silicon Valley (with companies such as Facebook) for many years and I must say that if you've been wanting to start a career in web development while wanting to explore new cultures, there's no better place to be than SPICED Academy"

- Karen, USA

Now Technical Program Manager at Hired.com

Prep Course (60-80 Hours)

The purpose of the Prep Course is to get you prepared for your 12 weeks on-site in Berlin. If you really focus on this part, you'll find the transition into the new concepts during the bootcamp phase of the course much easier.

After you complete the prep course material, you are required to take an assessment to ensure all participants are on the same footing when the course starts.

On-Site Course (12 Weeks)

Phase I

Continuing on from the Prep Course, you'll focus heavily on HTML, CSS and Javascript. You'll also review data types, learn to control flow with conditionals and loops, define variables and functions, create objects and arrays, and delve into handling exceptions. You will examine how global and local scopes work and how identifiers are resolved.

Important Topics

- Array methods
- The 'this' keyword
- Callbacks
- Inheritance patterns
- The module pattern
- Semantic markup
- Including resources (scripts, stylesheets, images, media)
- The box model
- Positioning
- Floating and clearing
- Media queries and responsive techniques

Phase II

You will integrate what you've learned of Javascript, HTML, and CSS and create interactive UI widgets and animations using native browser APIs as well as the jQuery library. You will make ajax requests to retrieve data from third party APIs and present it to users using client-side templates.

Important Topics

- DOM traversal
- DOM events and event delegation
- CSS transitions and animations
- requestAnimationFrame
- XMLHttpRequest and CORS
- HTTP methods, status codes, and headers

Phase III

You will learn about server-side programming with Node.js. Your first project will be a simple web server which will provide an opportunity to examine the basics of handling HTTP requests. We will use Node's fs module to learn about file I/O and gain an understanding of Node's streams API. We will move on to use the Express framework to create routes and middleware, handle submitted form data and query strings, set and retrieve cookies, and generate dynamic web pages using server-side templates populated with data retrieved from third party APIs.

Important Topics

- Readable and writable streams
- Event emitters
- Promises
- Cookies and sessions

Phase IV

You will learn how to connect to and query a database. You will build log-in and registration flows. You will also explore several popular client-side MV* frameworks and write single page applications and our own APIs to support them.

Important Topics

- CRUD
- Securely storing passwords
- Caching
- MVC

Phase V

You will work in small teams on more sizable projects while learning about testing, deployment, and Agile methodology.

Phase VI

In this final phase, students will work in teams on a capstone project of their choice. Had a project in the back of your mind for years? This is a great opportunity for you to work on bringing it to life! These capstone projects will bring together everything that you have learned throughout the course, and show the world that you are ready to call yourself a Full-Stack Web Developer!

SPICED Demo Day

At the end of the program, students will participate in SPICED demo day, an exciting event where they will present their capstone projects and meet with hiring managers from our network of Europe's hottest businesses and startups.

A Day at SPICED

9:30 am

Day starts with a brief exercise to review the previous day's material

10:00 am

Classroom instruction and lab work

12:30pm

Lunch

1:30 pm

Classroom instruction and lab work

6 pm

Students are free to go home, do evening reading, and get ready for the next day.

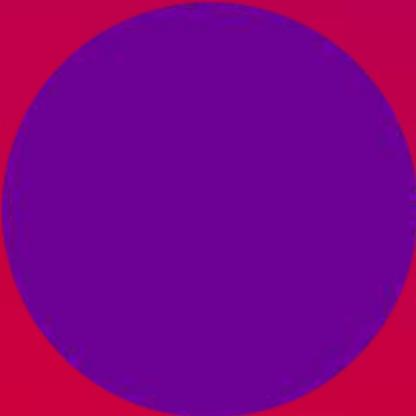


Outcomes

92% Employment rate for active job seekers*

37 Days Average duration from graduation to being hired

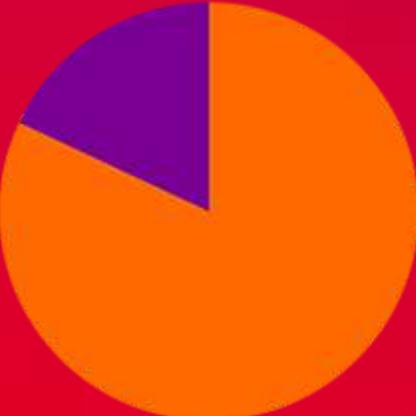
What field do our graduates work in?



Software Engineering
100%

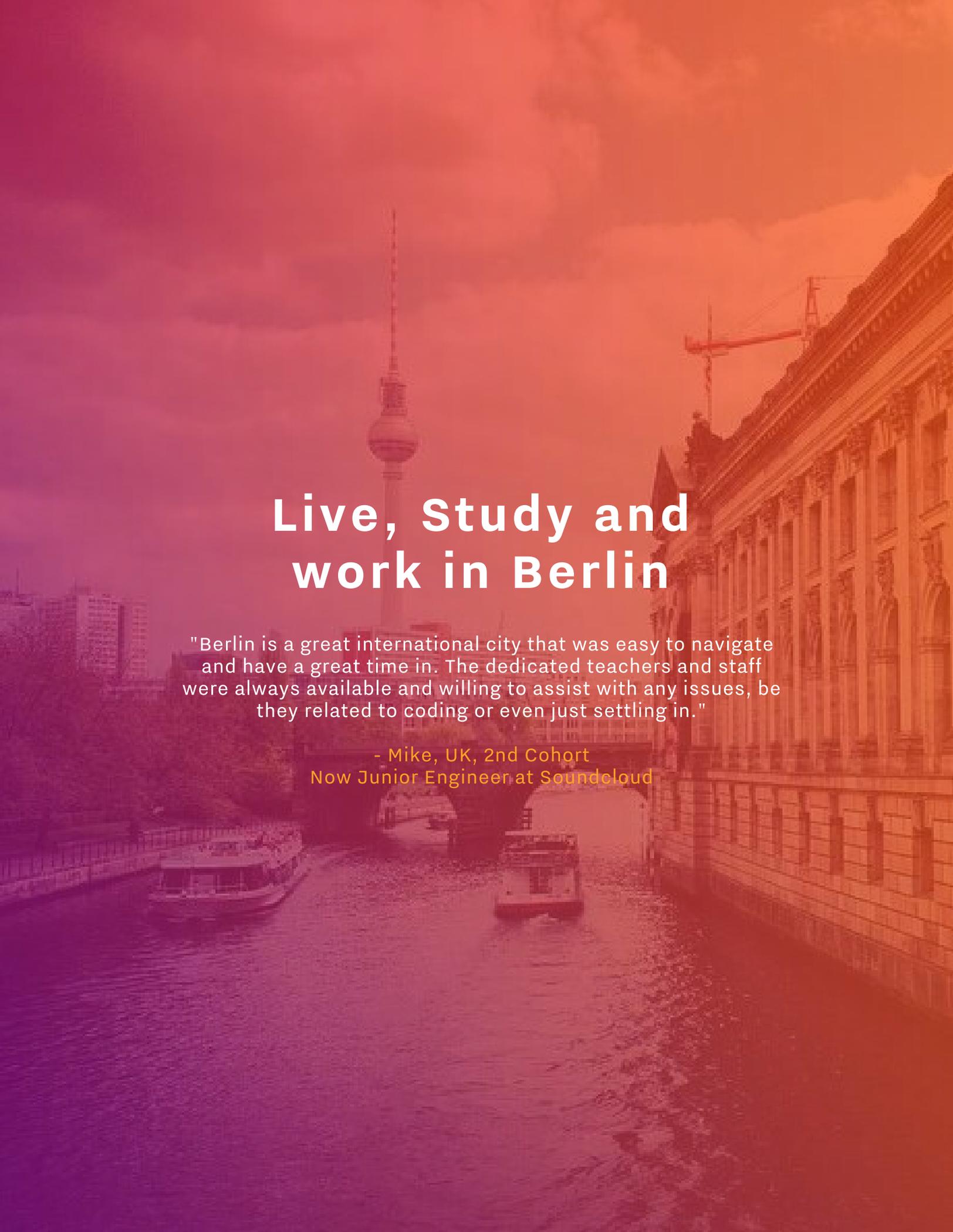
Other
0 %

What type of employment are our graduates in?



Full-Time Employment
82%

Part-Time Employment
18 %

The background image shows a wide river in Berlin, likely the Spree. In the distance, the Berlin TV Tower (Fernsehturm) is visible against a cloudy sky. On the right side, there is a large, ornate classical building with many windows. A bridge with several arches spans the river in the middle ground. Two boats are on the water: a larger one on the left and a smaller one on the right. The entire image has a reddish-orange color overlay.

Live, Study and work in Berlin

"Berlin is a great international city that was easy to navigate and have a great time in. The dedicated teachers and staff were always available and willing to assist with any issues, be they related to coding or even just settling in."

- Mike, UK, 2nd Cohort
Now Junior Engineer at Soundcloud

Career Skills

Throughout the program you will gain indispensable professional skills to thrive in your career and in life.

We focus heavily on communication skills, decision making, critical thinking, interdisciplinary teamwork and empathy. Additionally, you will learn and apply critical concepts in complex problem solving, rapid prototyping, pair programming and agile development.

You will build and refine your CV, your LinkedIn and GitHub profiles, work on your interviewing skills, and build and sharpen up your portfolio. In short, you'll be job-ready for a career you love!

Community

We love code. We also know there's more to life. The SPICED community is tight-knit. We hold regular get-togethers with pizza and drinks so you can get to know everyone on campus.

We pride ourselves on our international culture and providing a supportive environment to both students and staff. If you need help with your code or a chat, there's always a member of staff ready to grab a coffee.

It's the SPICED touch.

Berlin

Berlin is one of Europe's biggest, most exciting cities. It's also one of the most affordable.

Here, a fascinating history and culture is compounded by arguably the strongest startup and tech scene in Europe. Millions of people are drawn annually to its addictive blend of beauty and anarchy. Spend just a few hours roaming the atmospheric streets and it will soon become clear why Germany's capital city is one of the most exciting cities in the world right now.

Thanks to the low cost of living, Berlin has a world-famous creative scene. The city's evocative bars teem with young artists and musicians and stay open by candlelight until the small hours of the morning. The city is saturated with cultural events so when you're done learning to code, you'll be able to explore an exhausting amount of options. Come the weekend, you'll find a wealth of galleries, museums, restaurants and some of the best nightlife in the world.



SPICED

For more information, please get in touch with our
Director of Programs and Community, Shilpa.

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