

Welcome to the SDA Software Engineering Live Launch



Step 1.

Turn on Your Video



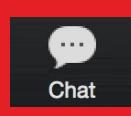
Step 2.

Mute Your Microphone



Step 3.

Give us a Howdy!



To: Everyone
Howdy!

Welcome to the Bootcamp

Whilst we wait for everyone to join, in the chat:

- Where you are joining us from
- What you are most looking forward to learning or taking away from this learning experience



Housekeeping

- Please stay on mute throughout the call
- There will be 15-minutes at the end for a moderated Q&A
- You'll receive a copy of this presentation afterwards
- This session will be recorded.



General Assembly

We're the leading talent and upskilling community, here to help people and businesses get the real skills they need to succeed in this fast-changing tech era. For over a decade, we've been making jobs in tech accessible to anyone and answering the talent demands of companies seeking quality, diverse candidates.

FLAGSHIP CAMPUSES



60 global markets

General Assembly is a brand of the Adecco Group, the world's foremost provider of staffing, career transition, and talent development solutions.

CONTENT AREAS



Engineering &
Development



Data & AI



Product & UX



Digital Marketing

FAST FACTS

- 110K+ global alumni
- 25,000+ employees of Fortune 500 companies trained in 20+ countries
- Flagship campuses in NY and Singapore + global virtual learning



Software Engineering Live Launch

- Meet the GA team
- Your learning journey
- Technical set-up
- Q&A

Meet the GA Team



GA Account Team Introduction



Matt Murphy

Client Success Manager

Leads bootcamp delivery process including managing timelines, scheduling, coordinates logistics and executing the programme with SDA team.



Saish Balakrishnan

Senior Client Success Manager

Leads overall learning strategy of online & offline experiences and ensures we're delivering successfully.

Virtual Bootcamp Instructor Team



George Jones

Lead Instructor



Asti Shalymova

Teaching assistant



Connor Hamilton

Teaching Assistant

In-Person Bootcamp Instructor Team



Devlin Booth

Lead Instructor



Cynthia Castello

Teaching assistant



Sam Bassong

Teaching Assistant

Your Learning Journey



Software Engineering Bootcamp

Getting started, week 0

Sunday

Monday

Tuesday

Wednesday

Thursday



Welcome from GA

This is your official welcome to the programme. You'll get to meet the GA team, hear more details about the programme and what is expected of you. Please ensure you have blocked this time in your diary and accept the calendar invite to access call details.

Tech set-up and tool check

Ensure that you have all the tools and software required throughout the programme installed on your machine

Toolkit:

- Windows, Mac, or Linux
- Python 3.7 (or higher)
- IDEs/Editors:
 - PyCharm Community Edition
 - Visual Studio Code
- Postman
- Docker
- PostgreSQL
- Git and GitHub

Pre - Bootcamp reading and materials

For the remainder of the week it's important that you complete the Bootcamp pre-reading which covers the basics in a range of topics featured in the Bootcamp.



THE LEARNER JOURNEY



INDUCTION

24 August

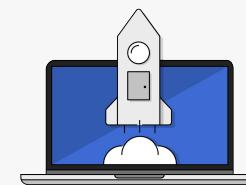
Preparation for the Bootcamp inc. tech installations, live launch and pre-reading



BOOTCAMP

31 August

GA Instructor led Bootcamp begins



CAREER COACHING

9 November

Participants work on new skills with GA coaches to re-enter the workplace

CURRICULUM: SOFTWARE ENGINEERING BOOTCAMP

 Instructor-Led



Onsite or Remote



~480 Hours

Overview:

Reskill non-technical talent into full-stack engineering roles to make immediate contributions to software projects. Participants will gain a solid base of fundamental programming, computer science knowledge, and experience with languages, frameworks, and libraries that the industry demands.

Business Outcomes:

- Build engineering capacity within your tech team.
- Transform non-technical talent into job-ready software engineers.
- Solve real engineering problems through capstone projects.

Software Engineering Training

Front-End Fundamentals	Python Programming	Intro to SQL & Django Web Framework	Django Rest API / Testing	React / Capstone	Career Coaching
Reinforce foundational front-end development and key programming concepts to create interactive web experiences.	Master Python fundamentals, object-oriented programming concepts, and advanced techniques to build scalable applications.	Master PostgreSQL fundamentals, including database design, querying, and data management, to effectively support robust and scalable application development.	Learn to build robust RESTful APIs with Django Rest Framework, implement secure JWT authentication, and apply testing techniques to ensure reliable, high-quality applications.	Master React fundamentals, including components, state management, hooks, client-side routing, API integration, and secure user authentication, to build dynamic web applications.	Learn about building a personal brand, LinkedIn best practices, resume best practices, and behavioral, and technical Interviewing skills.



SOFTWARE ENGINEERING FOR SDA

Week	Description	Topics
Week 1	Week zero is dedicated for participants to familiarize themselves with what is expected in the Bootcamp.	Live Launch, Tooling installation and Pre-reading materials
Week 2 HTML/CSS Fundamentals	Introduction to web development fundamentals and developer.	Command Line basics, Git Intro, HTML + CSS fundamentals, CSS Layout, Web Accessibility Study
Week 3 JavaScript and DOM Manipulation	Core JavaScript concepts and DOM interaction.	JS Functions and Scope, JS Array Methods, JS OOP, JS DOM, Event Listeners
Week 4 Python Programming Fundamentals	Introduction to Python programming language.	Control Flow in Python, Python Data Structures, Python Functions, Intro to Python & Variables
Week 5 PyBank - Terminal-Based Banking System	Students will create a fully functional banking system that operates via terminal commands.	Full-time dedication to week project development



SOFTWARE ENGINEERING FOR SDA

Week	Description	Topics
Week 6 Advanced Python, SQL, and AI	Advanced Python concepts and database fundamentals. How to effectively, and ethically use AI.	Python Classes, Python Exception Handling, Advanced OOP, Intro to Relational Databases, SQL Joins, AI, Vibe Coding, Plagiarism and AI Ethics.
Week 7 Django Framework Introduction	Web development with Django framework	SQL (Advanced), Intro to Django, Django Models, Django 1:N Models, Django URLs, Views, and Templates
Week 8 API Development with DRF	Building REST APIs with Django REST Framework	Introduction to DRF, CRUD Operations with DRF, Relationships and Pagination, Authentication and Permissions, Advanced Features and Deployment
Week 9 Testing in Python and Django	Comprehensive testing methodologies	Python Unit Testing I, Python Unit Testing II (TDD), Testing in Django, Testing Views and APIs, Advanced Testing Techniques and Coverage

SOFTWARE ENGINEERING FOR SDA

Week	Description	Topics
Week 10 Frontend Development with React	Modern frontend development and deployment	Modern Javascript Syntax, React Components, React State Management, React Router
Week 11 Capstone Project	Final project implementation	Full-time dedication to capstone project development
Week 12 Career Coaching	This week will be used for participants to have a week of career coaching. These will be led by career coaches	Introduction to Outcomes, Personal Brand, LinkedIn Best Practices, Resume Best Practices, Resume Workshop, Networking Best Practices, Behavioral Interviewing, Portfolios + Technical Interviewing, Job Search Strategy and Qualification, Work Ethics



Technical Set-up

Before the programme starts there are a few programmes you need to have access to

- Zoom
- Discord
- Python 3.7 (or higher)
- Operating Systems: Windows, Mac, or Linux
- IDEs/Editors: Visual Studio Code
- Postman: For API testing and debugging
- Docker: For containerization and deployment
- Database Management Systems: PostgreSQL
- Version Control Tools: Git and GitHub



Classroom Culture

In order to get the most out of your experience we ask that you:

Connect we create lots of time to connect with each other and with instructors

Come prepared to actively participate - this is a fully interactive program with team activities and open discussion.

Be present for the full session. Try to avoid scheduling conflicting meetings!

Take charge of your own learning by taking notes and screen shots as needed





Thank
You



GENERAL ASSEMBLY

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