

Bit Project Presents:

INTRO TO SERVERLESS

*Interested in making a difference?
Eager to give back to the tech community?
Become a mentor!*

bitproject.org/volunteer



SERVERLESS CAMP

Serverless Camp is a **free, online software bootcamp** for beginner to intermediate programmers. **Mastering Serverless Functions** allows students to get skills of **processing bulk data, integrating systems, and building simple APIs and micro-services**. These concepts can be applied everywhere in computing and application development.

Structure:

Week 1 : Get Started With Azure Functions

Week 2 : Working With APIs

Week 3 : Incorporate A Database

Week 4 - Building A Frontend

Weeks 5-8 : Build Individual Final Projects

Throughout this **8-week course**, students will learn about serverless functions using Azure, basic web development for frontend and backend, and basic **skills required to build a software project from scratch**.

The first 4 weeks will be dedicated to learning all the concepts and applying them to build a small guided project. This will be a complete web app with a frontend (HTML, CSS, JS) and backend (Azure Functions, NodeJS).

The remaining weeks will be for students to brainstorm, design, build, and test their own final projects using the skills learned in the first 4 weeks.

Check out our full syllabus and curriculum here!

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MENTORS

Students in our Serverless Camp are **paired with an engineer who will serve as a mentor** throughout the course. This mentorship is meant to provide students with **guidance in their final projects**, as well as an **opportunity to learn more about getting into and working in the tech industry**.

Pairing:

Students are paired with mentors based on their technical skills and professional interests, and how they interact with the interests and expertise of the mentors.

Mentors can have anywhere from 1 to 3 students. Mentors will not be given more students than the maximum they indicate in the application.

Meetings:

Mentors and students will meet weekly throughout the course of the Camp. Mentors and students will be invited to the Bit Project Slack to communicate and plan dates and times for meetings.

Meeting guidelines with suggested talking points will be provided.

Feedback:

Each week, students and mentors will be asked to fill out short feedback surveys. The Bit Project team will also reach out for more detailed feedback during the program.

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STRUCTURE

Weeks 1-3:

Average time: 30 - 45 minutes

- Discuss experiences in tech industry, journey into tech, advice for students to succeed
- Discuss the technology they are learning about in the program

Weeks 4-5:

Average time: 45 minutes - 1 hour

- Discuss ideas, scope, and plan for final project

Weeks 6-8:

Average time: 1 - 2 hours

- Discuss progress, debug issues, pair program, etc. (mentors are encouraged to tailor this to their own mentoring style)

DATES

June 21 - Aug 16th 2021

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COURSE COMPONENTS

As part of the program, students will be learning through: livestreams, homework, and work sessions. These experiences are organized, hosted, and moderated by the Camp instructors. *Mentors are not required to participate.*

Livestreams:

Weekly livestreams for Weeks 1-4 will encompass teaching the skills students will need to develop their own projects later. Bit Project Instructors will teach concepts by coding live during the stream and students will be able to follow along as they watch. All livestreams will be recorded and uploaded to the Bit Project YouTube for students who are not able to watch them live.

Mentors are not required to attend livestreams. A full course syllabus along with weekly updates of content covered will be provided.

Homework:

Weekly homeworks will contain step by step instructions on our GitHub repository. For the first 4 weeks, these homeworks will revolve around basic concepts and build off of the content students learn during livestreams. For the remaining weeks, homeworks will serve as checkpoints for the students' final projects.

Camp instructors will be primarily responsible for homework help asynchronously and through live work sessions. Mentors are welcome, but not required, to assist students with homework. It is highly recommended to leave time for talking points provided in meeting guidelines each week.

Work Sessions:

Course instructors will hold work sessions once a week for students to ask questions, work on assignments, and discuss course content.

Mentors are not required to join work sessions.

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EXPECTATIONS

- Knowledge of the tech industry and familiarity with curriculum topics, specifically:
 - Experience working with APIs and reading documentation
 - Experience with Azure Portal and Visual Code Azure extension
 - Knowledge of Azure use cases (i.e., Function Apps, Logic Apps, etc.)
 - Grasp of web dev concepts (frontend, backend)
 - Experience with NodeJS, HTML/CSS, NoSQL
- Able to commit 1-3 hours/week (at least 30 min - 1 hour per student)
 - Meetings tend to be shorter in the beginning when students are learning basic topics and longer towards the end as they work on their own final projects
- Excitement about the tech industry, software engineering, and serverless technology!
- Eagerness to help future engineers

Responsibilities

- Weekly 1:1 video meetings with your student(s) throughout the 8-week program with the purpose of:
 - Developing relationships with student mentee(s)
 - Assisting them in understanding concepts taught
 - Guiding them in building their final projects
- Check in with student(s) between meetings to see if they need help and to make sure they're on track
- Fill out short surveys after each week's mentoring session(s)
- Provide Bit Project team with feedback during and after the program
- Check Slack and email daily
 - Use Slack to communicate with your student(s), course instructors, and other Bit Project staff members
 - Important weekly updates will be sent in Slack and over email

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