Anushka Saxena

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Education

Carnegie Mellon University — Pittsburgh, Pennsylvania
Bachelor of Science in Electrical and Computer Engineering — May 2023
Relevant Coursework: Web Application Development, Introduction to Machine Learning, Signals and Systems, Technology and Policy of Cyber War, Introduction to Computer Systems, Principles of Imperative Computing, Introduction to Statistical Inferences, Probability Theory, Introduction to Computer Security*, Structure and Design of Digital Systems*, Natural Language Processing*, Artificial Intelligence: Representation and Problem Solving*
*Fall 2021

Gwinnett School of Mathematics, Science, and Technology — Lawrenceville, Georgia
High School Diploma — May 2019
Relevant Coursework: Calculus BC, Biology, Physics C: M, Physics C: E&M, Computer Science A, Chemistry, World History, Comparative Government, U.S. History, U.S. Government, Microeconomics, Macroeconomics, Spanish, English Language and Composition, Foundations of Engineering, Engineering Applications, Foundations of Electronics, Linear Algebra Applications in Python, completed an Engineering Pathway

Experience

Intel — Portland, Oregon
Incoming Software Engineering Intern — May 2021-August 2021
- Working in the Client Computing Group

Bank of America — Charlotte, North Carolina
Global Technology & Operations Analyst Intern — June 2020-August 2020
- Developed an investment research data streaming API and increased data transfer capacity to 50 MB with **Spring Boot MVC**, **Mule**, and **Apache Tomcat**
- Re-engineered the control and reporting system for the mission-critical enterprise application inventory in **Python SQL Alchemy** improving the reporting cadence from monthly to weekly
- Placed in the top 10 out of 200 groups for our Data Literacy Project for the best stock portfolio and data analysis using **Python** and **JupyterLab**
- Served as the cohort representative for the Environmental, Social, and Governance project related to planning career pipelines for the incarcerated in Los Angeles and budgeting Bank of America's investment in these plans

15-294: Rapid Prototyping Technologies and 15-394: Intermediate Rapid Prototyping — Pittsburgh, Pennsylvania
Computer Science Teaching Assistant — August 2020-Present
- Hold office hours for ten students to help students one-on-one with **computer aided design**, **Python**, Grasshopper, Rhino, and ideation for their final prototyping deliverable
- Grade projects and provide feedback to improve their design process on areas such as usability and functionality
- Created a lesson to teach Kangaroo, an interactive physics simulator and constraint solver plug-in for Grasshopper
- Fall 2020 15-294 course website: https://www.cs.cmu.edu/afs/cs/academic/class/15294-f20/, 15-394 course website: https://www.cs.cmu.edu/afs/cs/academic/class/15394-f20/

Residential Education — Pittsburgh, Pennsylvania
Residential Assistant — August 2020-Present
- Oversee the wellbeing of 15+ first year students and ensure they understand the culture of Carnegie Mellon
- Execute the residential curriculum through leading event planning logistics with a team of six, creating budgets for floor necessities, and providing peer support through weekly office hours
- Designing a chalkboard app using **Python** and **sockets.io** to facilitate large residential gatherings virtually (http://meet-pineapples.herokuapp.com/)

Gwinnett School of Mathematics, Science, and Technology Science Fair Department — Lawrenceville, Georgia
Web Developer — August 2018-May 2019
- Developed a website accessed by over 300+ sophomores to guide them through the science fair process by providing resources, forms, and rubrics on the website
- Planned and executed the 2019 GSMST Science Fair by directing volunteers, creating an efficient floor layout for judging, and processing the forms and scores after the event

Cisco — Lawrenceville, Georgia
High School Extern — June 2018-July 2018

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- Part of the Lawrenceville 20-student cohort of rising and graduating seniors in a comprehensive summer externship designed to give an introduction to STEM careers at Cisco.
- Completed a Capstone project along with 3 other students addressing transportation problems in the Atlanta area
- Designed solutions based off Cisco Meraki, IoT sensors, and video technology
- Placed as the runner-up in the final presentations (https://tinyurl.com/ciscohighfinalpres)

Organizations

SWE++   Pittsburgh, Pennsylvania
Computer Science Teaching Assistant   January 2021-Present
- Teaching **Python** to middle school students in Pittsburgh

ScottyLabs   Pittsburgh, Pennsylvania
Director of Events   August 2019-Present
- Planning TartanHacks, Carnegie Mellon's largest hackathon sponsored by companies such as Microsoft and Facebook with over 400 attendees and hosted workshops on how to build hackathon projects
- Leading Web Development Weekend, a series of educational workshops designed to introduce underclassmen to web dev skills such as **HTML, CSS**, **JavaScript** and more with over 50 attendees
- Piloted SL Careers, a webpage to provide job, internship, scholarship, and research opportunities utilizing **React**, **Node.js**, and **Google APIs** (http://careers.scottylabs.org/)

Robotics Club   Pittsburgh, Pennsylvania
Secretary   August 2019-Present
- Planning educational activities as part of the mentorship committee for over 20 underclassmen to teach them all about robotics, shop, 3D printing, laser cutting, electronics, **Arduino**, and programming
- Planning Red Robot, a series of challenges designed to teach beginners robotics in a virtual setting
- Promoting the club on social media and assist other officers with administrative needs

Projects

Social Action Project Society   Pittsburgh, Pennsylvania
Backend Developer   September 2020-Present
- Designing a **Chrome Extension** that recommend small businesses around the area based on personal preferences and past shopping history
- Developing a **MongoDB** database to store the different stores, locations, and types of businesses

A Taste of Africa   Remote
Web Development Volunteer @ Levare   June 2020-August 2020
- Remotely developed an ecommerce website for a small POC-owned business in California using **Gatsby**, **GraphQL**, **Bootstrap**, **Google APIs,** and **Netlify CMS** to establish online presence (https://atasteofafrica.netlify.app/)
- Created tutorials on **Git workflow**, **command line**, **node package manager**, and deployment to guide over 90 programmers in software development

Feed the Burghers   Pittsburgh, Pennsylvania
Co-Founder and Web Developer   September 2019-Present
- Developing a web application to make food collection campaigns easier to run and encourage more Pittsburgh citizens to donate food (http://feedtheburghers.tech/)
- Perform user research on food collection habits with students, organizations, grocery stores, and restaurants to optimize our user experience
- Partnering with local food banks and pantries and working on our 501(c)(3) status

Other Involvement: BUILT BY GIRLS Ambassador (2020-Present), Rewriting the Code Fellow (2020-Present), Triple Helix (2020-Present)

Skills

Computer Skills: Python, Java, C, R, HTML, CSS, JavaScript, React, Node.js, Gatsby, GraphQL, SQL, Git
Language Skills: Native Proficiency: English, Hindi, Working Proficiency: Spanish