



SERENA ZENG

Computer science student at Rutgers University
interested in software development and
emerging technologies

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EDUCATION BACKGROUND

Rutgers University Honors Program

Bachelor of Science in Computer Science Major, Business Administration Minor

Anticipated Graduation Date: May 2024 | 4.0 GPA

Past Coursework (2020-2021): Data Structures, Computer Architecture, Intro to Discrete Mathematics I, Intro to Linear Algebra

Current Coursework (Fall 2021): Systems Programming, Principles of Information and Data Management, Intro to Discrete Mathematics II

EXPERIENCE

VERIZON

Device Technology Intern

Basking Ridge, NJ (Remote)

June 2021 - August 2021

- Verizon Modeling and Analytics Systems Team: Developed real-time analytics web portal with data visualizations and proactive alarming; Developed an automated email notification system for performance degradation alarms; Technologies used: Reactjs, JavaScript, Restful API integration, Node.js, cron, Postgres
- Verizon Identity Management Team: Performed research on different trends in identity and authentication technology (digital identity, biometrics, self-sovereign identity, decentralization, etc.) and how upcoming technology can be leveraged by the company; Developed test plan for vendors offering behavioral biometric technology; Helped create demo videos for the team's proof of concepts that were presented to leadership and partner companies

JUNIOR ACHIEVEMENT OF NJ

Software Development Intern

Edison, NJ (Remote)

August 2021 - Present

- Develop POC application for students to track hours spent volunteering at JANJ. Includes developing a web app and admin portal.
- Manage team of volunteers developing the mobile app portion of the project.
- Technologies used: Reactjs, Django REST Framework, JavaScript, Python, REST APIs, Heroku

Programs Intern

July 2020 - August 2021

- Managed STEM programs for hundreds of students across NJ including the Crack the Code Workshop Series, ADP Tech Challenge, EY Tech Talks, and JANJ App Challenge.
- Reached 550+ students and also included 80+ corporate volunteers and 80+ high school volunteers overall.
- Developed workshop curriculum (Python, HTML/CSS, JavaScript, etc.), program marketing, communicated with corporate partners, and website development/maintenance (Reactjs, Wix, dotCMS).

BUILT BY ME

STEM Instructor & Curriculum Developer

East Brunswick, NJ (Remote)

June 2020 - June 2021

PROJECTS

MyBus - 2019 Congressional App Challenge Winner

- Developed MyBus, a product to enable wireless, web-based tracking of school buses, improving communication through the school bus system consisting of a tracker box, mobile application, and administration web portal.
- Technologies used: HTML/CSS, JavaScript, Firebase, Bootstrap, Arduino Uno

HackRU Research and Development

MentorQ Project Lead & Software Architect | July 2020 - Present

- Develop and maintain web app called MentorQ which connects hackathon attendees to mentors at Rutgers' biannual HackRU events
- Created an administration web portal, user feedback feature, UI redesign, REST API development & integration
- Technologies used: ReactJS, JavaScript, Redux, Material-UI, REST APIs, Django REST Framework, Jest

SKILLS

Languages

- Java
- C
- JavaScript
- Python
- HTML/CSS

Tools

- Git & Github/GitLab
- Postman
- Command Line
- Eclipse
- Visual Studio Code
- Heroku

Libraries & Frameworks

- ReactJS
- Bootstrap
- Material-UI
- Django REST Framework

Others

- Public Speaking
- Project Management
- Teaching