

# ROOSEVELT SCAGGS

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## EDUCATION

**Princeton University**

May 2024

B.S.E. Computer Science

**Relevant Coursework:** Distributed Systems, Algorithms and Data Structures, Advanced Programming Techniques, Information Security, Information Technology & Public Policy

## SKILLS

- **Languages:** Typescript/Javascript, C, C#, Python, Java, HTML, CSS, SQL, Swift, Go
- **Frameworks/Libraries:** Spring Boot, React, Redux, Angular, RxJS, .NET Core, Flask, Django, Node.js, Express, Three.js, D3.js
- **Tools:** Kafka, Git, Linux, AWS, Jenkins, Nginx, ESXI, MSSQL, PostgreSQL, Bash, Docker, Kubernetes, JUnit, Jest, Selenium
- **Software:** IntelliJ, VS Code, Xcode, Keynote, Final Cut Pro, After Effects, Photoshop, Illustrator, Pages

## EXPERIENCE

**Advanced Programming Techniques Grader, Princeton University**

December 2022 - May 2024

- Tested and critiqued student software engineering projects for security vulnerabilities, bugs, and usability.

**Peer Academic Adviser, Princeton University**

August 2022 - May 2024

- Utilized Canvas LMS for promoting engaging and interactive online orientation content.
- Aided students in accessing campus resources, including academic workshops and extracurricular opportunities.

**Project Team Lead / Full Stack Developer, Trenton Health Team**

February 2022 - August 2023

**Main Project:** Mercer County Free Food Finder — <https://rooseveltschaggs.com/projects/mercer-food-finder>

- Developed web application using **Python (Flask + SQLAlchemy)**, **HTML**, **CSS**, and **Javascript**.
- Deployed and managed application on Heroku cloud platform, setup CI/CD pipeline, and configured Google API.
- Met weekly with stakeholders to gather app requirements and showcase implemented features for feedback.
- Ensured that projects stayed within scope, met established timelines, and remained within budget constraints.
- Served as liaison between devs and stakeholders, translating feature requirements into technical action items.
- Proactively identified and resolved potential future project issues to ensure long-term application stability.
- Created and maintained project documentation, including project plans, status reports, and meeting minutes.
- Increased site traffic by over 400% by creating promotional video content demonstrating application features.

**Full Stack Software Engineer and Computer Repair Technician, BWISE**

January 2015 - July 2021

- Developed web app with event scheduling and donation management features using **React** and **Flask**.
- Developed containerized applications using **Docker** enabling rapid application deployment & updates.
- Developed CI/CD pipelines with **Jenkins + GitLab** to automate build and deployment of Docker containers.
- Configured **Kubernetes** clusters for container orchestration ensuring high availability and scalability.

**Consulting Intern, Accenture**

June 2019 - August 2019

**Main Project:** AWS EC2 Cost Optimizer — <https://rooseveltschaggs.com/projects/aws-cost-optimizer>

- Reduced analysis time by 75% by developing a database application to automatically analyze usage data, offer suggestions for optimizing cloud costs, and generate savings reports — developed using **Java**, **VBA**, and **SQL**.
- Aided cloud migration project by updating firewall rules to be applied to **AWS EC2** instances.

## ADDITIONAL CONTRACTED PROJECTS & RESEARCH

**MAINFRAME Classic/Pro — Project Page + Demo:** <https://rooseveltscaggs.com/projects/mainframe-pro>

- Classic Version: Developed a student information system using **React**, **.NET Core API (C#)**, **MSSQL**, and **IIS**.
- Pro Version: Revamped MAINFRAME Classic using **Angular**, **Spring Boot**, **Express.js**, **PostgreSQL**, and **Nginx**.
- Implemented microservices using **Spring Boot** and **Kafka** including a report generation microservice.
- Designed unit tests with **JUnit** and **Jest** to ensure feature integrity.
- Containerized services with **Docker** and managed deployments with **Kubernetes**.

**ANTI-HERO: Cost Optimized Distributed System — Project Page:** <https://rooseveltscaggs.com/projects/anti-hero>

- Implemented fail stop distributed system and automated **Python** client for configuring and testing the system.
- Designed & ran automated experiments for testing system throughput and latency with simulated failures.
- Developed animated **Keynote** presentations tailored to audiences of multiple learning styles and preferences (reading, visual, auditory/verbal) for enhancing comprehension of technical content
- Currently designing live monitoring dashboard with live analytics views using **D3.js** and **Three.js**

**My Housing Upgraded — Project Page + Demo:** <https://rooseveltscaggs.com/projects/my-housing>

- Developed housing management web app with responsive UI and realtime interactivity via **Websockets**.