

# ROOSEVELT SCAGGS

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## EDUCATION

### Princeton University

B.S.E. Computer Science

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

## EXPERIENCE

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

February 2022 - August 2023

**Main Project:** Mercer County Free Food Finder — <https://rooseveltschaggs.com/projects/mercator-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.

## SKILLS

- **Languages:** Typescript/Javascript, C, C#, Python, Java, HTML, CSS, SQL, Swift, Go
- **Frameworks/Libraries:** React, Redux, Angular, RxJS, .NET, Flask, Spring Boot, Node.js, Express, Django, Three.js, D3.js
- **Tools:** Git, Linux, AWS, Jenkins, Nginx, ESXI, MSSQL, PostgreSQL, VS Code, Xcode, Bash, Docker, Kubernetes

## ADDITIONAL PROJECTS & RESEARCH

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

- Implemented interconnecting Flask REST APIs and a Python client for configuring and testing the system.
- Designed & ran automated experiments for testing system throughput and latency with simulated failures.
- Currently designing live monitoring dashboard with live analytics views using D3.js and Three.js

**MAINFRAME Classic/Pro — Project Page + Demo:** <https://rooseveltschaggs.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.

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

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