

# ROOSEVELT SCAGGS

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## EDUCATION

**Princeton University**

May 2024

B.S.E. Computer Science (Cumulative Undergraduate GPA: 3.644)

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

## EXPERIENCE

**Advanced Programming Techniques Grader, Princeton University**

December 2022 - Present

- Independently tests and critiques student software engineering projects for Princeton course COS333.

**Lead Full Stack Web Developer (Contracted), Trenton Health Team**

February 2022 - August 2023

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

- Designed and developed web application using Python (Flask + SQLAlchemy), HTML, CSS, and Javascript.
- Deployed and managed web application on Heroku platform using Git and configured Google API.
- Met weekly with program management team at THT to gather application feature requirements and demonstrate implemented features for further feedback.
- Increased site traffic by over 400% by creating promotional video content demonstrating application features.

**Web Developer and Computer Repair Technician, BWISE**

January 2015 - July 2021

- Designed and developed custom web application with event scheduling and donation management features.
- Troubleshooted and repaired iOS, Android, macOS, and Windows computer software issues.
- Met weekly with supervisor and updated company website with a complete redesign.
- Created promotional flyers and videos for company events.

**Consulting Intern, Accenture**

June 2019 - August 2019

**Main Project:** AWS EC2 Cost Optimizer — <https://rooseveltscaggs.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.

## PROJECTS & RESEARCH

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

- Designed & implemented interconnecting REST APIs and a Python client for configuring and testing the system.
- Designed & ran automated experiments with simulated failures testing system throughput and latency.

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

- Classic Version: Designed & developed an information system using React, .NET Core API (C#), MSSQL, and IIS.
- Pro Version: Redesigned & developed an information system using Angular, Express.js, PostgreSQL, and Nginx.

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

- Designed & developed housing management application with responsive UI and live interactivity via Websockets.

## SKILLS

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