

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:** React, Redux, Angular, RxJS, .NET Core, Flask, Django, Node.js, Express, Three.js, D3.js
- **Tools:** Git, Linux, AWS, Jenkins, Nginx, ESXI, MSSQL, PostgreSQL, VS Code, Xcode, Bash, Docker, Kubernetes
- **Software:** Keynote, Final Cut Pro, After Effects, Photoshop, Illustrator, Pages

EXPERIENCE

Advanced Programming Techniques Grader, Princeton University

December 2022 - Present

- Test and critique student software engineering projects for security vulnerabilities, bugs, and performance.

Peer Academic Adviser, Princeton University

August 2022 - Present

- Utilize Canvas LMS for developing engaging and interactive online instructional content.
- Develop animated Keynote presentations for enhancing comprehension and engagement for audiences of multiple learning styles and preferences (reading, visual, auditory/verbal).
- Assist students in identifying and accessing campus resources, including tutoring services, 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

ANTI-HERO: Cost Optimized Distributed System — **Project Page:** <https://rooseveltsdaggs.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.
- Currently designing live monitoring dashboard with live analytics views using D3.js and Three.js

MAINFRAME Classic/Pro — **Project Page + Demo:** <https://rooseveltsdaggs.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, Express.js, PostgreSQL, and Nginx.

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

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