ROOSEVELT SCAGGS

roosevelt.scaggs@gmail.com | rooseveltscaggs.com/projects (for additional project details)

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

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

KEY EXPERIENCE

Application Engineer, *The Walt Disney Company*   **August 2024 - Present**

- Design, build, and ship new features of a cutting-edge software platform that serves strategic internal business decision-makers for Disney's Media Networks.
- Collaborate with other Application Engineers to build application pages, services, and components as specified, prioritized, and scheduled by product leads.
- Collaborate with Product Managers to understand business opportunities and requirements.
- Collaborate with Data Scientists to create user-friendly interfaces for science model inputs & outputs serving end-to-end solutions.
- Collaborate with Data Engineers to build data storage, retrieval, and archiving routines.
- Propose creative user experiences through working prototypes that meet business and application requirements.

Project Team Lead / Full Stack Developer, *Trenton Health Team*   **February 2022 - August 2023**

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

- Developed two web applications 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*   **August 2019 - 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://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.

Information Technology Specialist (Freelance) January 2015 - June 2019

- Troubleshooted and repaired iOS, Android, macOS, and Windows computer software issues.
- Setup and managed Windows Server domain controllers.
- Installed and managed server features including Active Directory, IIS, DNS, and DHCP.

ADDITIONAL CONTRACTED PROJECTS & RESEARCH

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

- <u>Classic Version</u>: Developed a student information system using **React**, **.NET Core API (C#)**, **MSSQL**, and **IIS**.
- <u>Pro Version</u>: 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.
- Designed 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**.