SAMUEL PING

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EDUCATION

Rutgers University – New Brunswick, School of Arts & Sciences   New Brunswick, NJ
Bachelor of Science in Computer Science, Minor in Business Administration   *Expected: May 2023*
Cumulative GPA: 3.77/4.00
Relevant Coursework: Data Structures, Discrete Structures I & II, Computer Architecture, Systems Programming, Design and Analysis of Algorithms (Fall 2021), Software Methodology (Fall 2021)

WORK EXPERIENCE

Capital One – Software Engineering Intern (Android Development)   *June 2021 – August 2021*
- Implemented a FAQ page module for Capital One's mobile Android app using MVVM architecture (Kotlin/Android Studio), in a team with two other interns.
- Implemented both UI and unit tests using JUnit, contributing to over 50% of plugin test coverage.
- Followed scrum agile methodology using Jira.

Rutgers Open Systems Solutions – Student Systems Programmer (SysAdmin, Full Stack)   *February 2020 – Present*
- Leading two other people in the development for Shrunk, the official Rutgers URL shortener (React/TypeScript/Python/Flask/MongoDB).
- Maintaining documentation regularly while encouraging best practices and code review on GitLab.
- Troubleshooting and resolving issues on production servers.
- Maintaining RPM packages and migrating SQL databases to Docker containers in a UNIX-based environment.
- Installed, configured, and evaluated Cacti networking monitor on CentOS machine for networking technicians.
- Working with eDiscovery team to debug, update and maintain business-critical scripts written in Golang.

LEADERSHIP

HackRU – Project Lead, Organizer   *September 2020 – Present*
- Leading two other people in the development of Sledge, HackRU's submissions and judging system (React.js/Node.js/Express.js/MongoDB).
- Making key architectural decisions, performing code reviews, and holding weekly meetings and 1:1s.
- Deployed development instance with Nginx on AWS EC2, and integrated GitHub Actions and AWS CodeDeploy pipelines with bash scripts for continuous integration and deployment.
- Implemented a Slack automation script to save administrator time, reducing setup time by 167%.

Undergraduate Student Alliance of Computer Scientists – Technology Director, Mentor   *September 2019 – Present*
- Organizing events and initiatives to inspire the Rutgers CS community to learn and build projects.
- Mentored two computer science undergrads. Held biweekly 1:1s and created Git tutorial website for them.

PROJECTS

Food Mood – *React.js, Express.js, Node.js, AWS Amplify, Various APIs*   *https://github.com/samuel-ping/food-mood*
- Web app that makes restaurant suggestions based on emotional sentiment detected in user photo.

chat_stat – *Python 3*   *https://github.com/samuel-ping/chat_stat*
- Command line tool that parses message history and displays charts and statistics about the messaging history.
- Written with a focus on object-oriented programming and following best Python practices.

Street Cred – *Python 3, React.js, AWS Lambda*   *https://github.com/samuel-ping/street-cred*
- Built web app that roughly calculates credit score and gives recommendations to improve it with four other people.
- Won 3rd place in the Capital One Software Engineering Summit Hackathon.

SKILLS & INTERESTS

Programming Languages: Proficient in C, Java, Kotlin, & Python. Familiar with JavaScript and TypeScript.
Tools/Frameworks: Git, UNIX-based OSs, AWS, Android, React.js, Node.js, Express.js, MongoDB, REST APIs, RPMs, Nginx.
Hobbies: Tennis (12 years), dramatic theater (5 years), computer hardware, succulent gardening.