

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

GPA: 3.80/4.00

Selected Coursework: Data Structures, Algorithms, Computer Architecture, Systems Programming, Software Methodology, Principles of Information & Data Management, Operating Systems, Internet Technology, Distributed Systems (Spring 2023), Intro to Data Science (Spring 2023)

Leadership Roles: Vice President of Rutgers Club Tennis, Past Technology Director at USACS, Past Project Lead at HackRU

EXPERIENCE

MongoDB – Software Engineer Intern

June 2022 – August 2022

- Fixing broken partitions automatically in database sync history (Golang/MongoDB)
- Achieved 99% reduction in portion of database sync service startup time (from ~23 seconds to ~0.2 seconds)

Amazon – Software Development Engineer Intern

January 2022 – April 2022

- Created Python script using PySpark to monitor critical machine learning model metrics on AWS CloudWatch

Capital One – Technology Intern (Android Development)

June 2021 – August 2021

- Implemented a FAQ page module for mobile Android app using MVVM architecture (Kotlin/Android Studio) with two other interns
- Implemented 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 – October 2022

- Led two other people in the development for Shrunk, URL shortener with over 12 million clicks (React/TypeScript/Python/Flask/MongoDB)
- Created component for Shrunk to allow users to control sharing permissions with other users
- Built and maintained RPMs used in a user community of 70,000 people in a UNIX-based environment
- Installed, configured, and evaluated Cacti networking monitor on CentOS machine for networking technicians

HackRU – Project Lead, Organizer

September 2020 – January 2022

- Led two other people in the development of Sledge, HackRU's submissions and judging system (React.js/Node.js/Express.js/MongoDB)
- 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 channel creation automation script to save administrator time, reducing setup time by 67%

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

shrimpify – *Golang, Heroku*

<https://github.com/samuel-ping/shrimpify>

- API that compresses images with minimal loss in quality

matchat – *Python 3, Flask, Docker, AWS EC2, Slack API*

<https://github.com/samuel-ping/matchat>

- Slack application that automatically pairs interns with full time employees for coffee chats every week

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 Capital One Software Engineering Summit Hackathon

SKILLS & INTERESTS

Programming Languages: Proficient in Java, Golang, C, Kotlin, & Python. Familiar with JavaScript

Tools/Frameworks: Git, UNIX-based OSs, AWS, Android, React.js, Node.js, SQL, MongoDB, REST APIs, RPMs, Nginx

Hobbies: Tennis (12 years), dramatic theater (6 years), computer hardware, succulent gardening