

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: 3.674

Relevant Coursework: Systems Programming (Spring 2021), Computer Architecture, Data Structures, Discrete I & II (Spring 2021), Intro to Linear Algebra

EXPERIENCE

Student Systems Programmer @ RUTGERS OPEN SYSTEM SOLUTIONS

February 2020 – Present

- Developer for Shrunk, the official Rutgers URL shortener. Written in **React.js/TypeScript** and **Python 3**.
 - Writing new features for sharing URLs across different people and organizations.
 - Added feature that checks if shortened URLs redirect to banned links, increasing application security.
- Working with eDiscovery team to debug, update and maintain business-critical scripts written in **Golang**.
- Migrated multiple **SQL** and **NoSQL** databases to **Docker** containers and other machines.
- Building and updating **RPMs** used in a user community of 70,000 people in a **UNIX**-based environment.
- Install, configure, and evaluate Cacti networking monitor for networking technicians.

RnD Organizer & Mentor @ HACKRU

September 2020 - Present

- Developer for Sledge, the hackathon's judging software, which uses TypeScript, Express.js, and SQLite.
 - Added vital Sledge feature which links each hackathon submission to its Devpost page, increasing judging efficiency.
- Built crucial script that generated judging tables for virtual hackathon in Slack using **JavaScript**, greatly reducing the amount of time setting up the judging channels by 167%.

LEADERSHIP

Mentor & Member @ UNDERGRADUATE ALLIANCE OF COMPUTER SCIENTISTS

September 2019 – Present

- Mentoring two computer science undergraduates at Rutgers, providing both academic and career advice, when warranted. Created a **Git** tutorial for them by hosting a light website using **HTML/CSS** on GitHub.
- Also mentored students at a local high school hackathon, as well as at HackRU.

PROJECTS

FOOD MOOD

<https://github.com/samuel-ping/food-mood>

- Web app that makes restaurant suggestions based on emotional sentiment detected in user photo.
- Stack: **React.js**, **Express.js**, **Node.js**, hosted on **AWS EC2** using **Nginx**. Uses **AWS CodePipeline** and **CodeDeploy** with **shell scripts** for **continuous deployment**. Uses AWS's Rekognition API and Yelp's Fusion API to find restaurants.

CHAT_STAT

https://github.com/samuel-ping/chat_stat

- CLI tool that parses message history and displays charts and statistics about the messaging history.
- Written in **Python**, with a focus on object-oriented programming and following Python best practices.

STREET CRED (Capital One SES Hackathon 3rd place)

<https://github.com/samuel-ping/street-cred>

- Web app that calculates credit score and gives recommendations on improving it based on five main categories that make up credit scores.
- Stack: **Python** backend hosted on **AWS Lambda**, with a **React.js** frontend.

SKILLS & INTERESTS

Programming Languages: Proficient in C, Java, & Python 3. Familiar with JavaScript.

Technologies: UNIX, WSL2/Ubuntu, Git, Package Management (pip, npm, RPMs), AWS (EC2, Lambda, S3, CodePipeline, CodeDeploy, Amplify, and more), HTML/CSS, React.js, Flask, Node.js, Express.js, Next.js, MongoDB, APIs, Netlify CMS

Languages: English (native), Mandarin (fluent)

Hobbies: Tennis (12 years), Dramatic theater (6 seasons), Computer hardware, Succulent gardening