

SAMUEL PING

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EDUCATION

RUTGERS UNIVERSITY – NEW BRUNSWICK, SCHOOL OF ARTS & SCIENCES

Bachelor of Science in Computer Science, Minor in Business Administration

New Brunswick, NJ

Expected: May 2023

- Cumulative GPA: 3.674

Relevant Coursework: Computer Architecture, Data Structures, Discrete Structures I

EXPERIENCE

CAPITAL ONE (Incoming Summer 2021 SWE Intern)

McLean, VA

RUTGERS OPEN SYSTEM SOLUTIONS

Piscataway, NJ

Student Systems Programmer

February 2020 – Present

- Adding features to Shrunk, the official Rutgers URL shortener. Ex. preventing URLs redirecting to banned sites from being shortened. Backend code written in **Python** (using the Flask library).
- Working with eDiscovery team to debug, update and maintain business-critical scripts written in **Golang**.
- Updating and migration of existing services and **SQL** databases to **Docker** containers.
- Updating and building **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.

HACKRU

RnD Organizer, Mentor

September 2020 - Present

- Developer for Sledge, the hackathon's judging software, which uses **TypeScript**, **Express.js**, and **SQLite**.
- 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%.
- Added vital Sledge feature which links each submission to its Devpost page, increasing judging efficiency.

LEADERSHIP

UNDERGRADUATE ALLIANCE OF COMPUTER SCIENTISTS

Mentor, General Member

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

Personal Project

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

March 2020 – August 2020

- Web app that makes restaurant suggestions based on emotional sentiment detected in user photo.
- **React.js**, **Express.js**, **Node.js**, hosted on **AWS EC2** using **Nginx**. **AWS CodeDeploy** and **CodePipeline** for continuous deployment.
- App uses AWS's Rekognition API to get emotions from photo, and Yelp's Fusion API to find restaurants.

STREET CRED (3rd place)

Capital One Software Engineering Summit Hackathon

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

August 2020

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

SKILLS & INTERESTS

Programming Languages: C, Java, Python, HTML/CSS/JavaScript

Technologies/Frameworks: UNIX, Git, AWS (EC2, Lambda, API Gateway, S3, CodePipeline, CodeDeploy, Amplify, Cloudfront), React.js, Node.js, Express.js, APIs, Netlify CMS

Languages: English (native), Mandarin (fluent)

Hobbies: Tennis (11 years), Dramatic theater (5 seasons), Computer hardware