

EDUCATION

CARNEGIE MELLON UNIVERSITY (CMU)

Bachelor of Science, Information Systems; GPA: 3.89/4.0

Minors: Software Engineering and Computer Science

Pittsburgh, PA

Expected Graduation: May 2023

- **Technical Skills:** Python 3, Java, JavaScript/Typescript, Node.js, SQL (MySQL 5.7, PostgreSQL), HTML/CSS, RESTful API, Swagger API, SpringBoot, Bootstrap 4.6, Express.js, MongoDB, Ruby on Rails, Dart/Flutter, C, OOP Design Patterns
- **Relevant Coursework:** Application Design and Development (Ruby on Rails), Imperative Computing (C), Database Design and Development (SQL, MongoDB, Redis), Software Construction (TypeScript, OOP Design Patterns), Machine Learning, Software Engineering for Startups (React, GCP, Express), Computer Systems (C)
- **Languages:** Fluent in Korean, English; Conversational Spanish

EXPERIENCE

Loom

Incoming Software Engineering Intern

Remote, USA

Jun 2022 – Aug 2022

- Working in Integrations Team; developing Loom SDK, a javascript SDK for recording/embedding Loom videos

Institute of Software Research (ISR)

Research Assistant under [Dr. Christian Kaestner](#)

Pittsburgh, PA

Dec 2021 – present

- Assessing the sustainability of npm, PyPI, Packagists open-source systems with repository commits, issues, versions, etc.
- Quantitatively explored data to assess open-source systems' lifecycles. Submitted [poster](#) to Meeting of Minds 2022.

Fasoo

Software Engineering Intern

Seoul, South Korea

Jun 2021 – Aug 2021

- Collaborated with intern team to redesign the admin site for the company's note-taking application, DigitalPage
- Created 30+ MySQL queries to analyze meaningful data from over 600,000 data points on SpringBoot Framework; employed d3.js to create statistical graphs about the user base/activity; used Bootstrap 4.6 for front-end and Vanilla JS/AJAX; deployed website with AWS Lambda
- Developed [DigitalPage's](#) home page according to the app's new design language using HTML/CSS/JS

SK TELECOM (SKT)

Summer Intern

Seoul, South Korea

Jun 2018 – Aug 2018

- Managed an A/B test with a sample size of 700,000+ visitors on the main page of the company's e-commerce [website](#) to increase exposure new unlimited LTE plan; increased traffic by 20% and presented results to marketing strategy team
- Conducted an in-house survey of the company's [video-streaming platform](#), and to identify 5 different key problems and solutions; presented to the executive board

LEADERSHIP AND PROJECTS

SCOTTY LABS

Tartanhacks Tech Committee

Pittsburgh, PA

Sept 2021 – present

- Contributed to CMU's largest hackathon's dashboard app using Dart and Flutter
- Integrated legacy backend APIs (Swagger) for participants and admins to view and create scheduled events

Data Visualization Framework

Project

Pittsburgh, PA

Nov 2021

- Collaborated with two other teammates to create data visualization framework that accepts a data and visualization plugin
- Incorporated Clarifai's machine learning API (clustering) to analyze input image and returned color density profile of the picture
- Used Typescript, Express.js, concurrency (promises) to accept images locally and from external APIs. Used Bootstrap4, handlebars and d3 library to display graphs of the color densities

Republic of Korea Army

Sergeant/Squad Leader

Goseong, South Korea

Aug 2019 – Mar 2021

- Deployed to Goseong DMZ as part of the 148th Intelligence Battalion
- Directed a squad of 8+ soldiers to conduct border surveillance and maintain a database of 6000+ datapoints yearly; participated in weekly joint border control operations with UN Peacekeepers
- Acquired Craftsman Information Processing certificate (Jul 2020) and self-taught Javascript and Golang during service

PlasmaPy

Open-Source Contributor

Pittsburgh, PA

Nov 2019

- Fixed the [issue](#) of PlasmaPy emitting unnecessary warnings by changing test suite (pytest) and manipulating logical operators in customer warnings suite and astroPy.
- Collaborated with three teammates to suppress a total of 74 warnings; [pull request](#) was accepted to main branch
- Managed CD/CI with Github Actions, incorporating Linters check and pytest on different versions of Python and environments