

TECHNICAL SKILLS

Programming Languages: Python (scikit-learn, Keras, pandas, NumPy, matplotlib), C#, JavaScript (Typescript, Vue, Express, React), R, MATLAB, Java, C++

Frameworks: .NET, Spring, Bootstrap

Databases: MySQL, Postgres, SQL Server

Tools: Git, Docker, Perforce, Gradle

Services: AWS, Google Cloud

EDUCATION

Harvey Mudd College, Computer Science and Mathematics

Claremont, CA | 08/17- 12/23

□ Minor: Spanish

- Note: Currently taking gap year to work

PROJECTS

- ✦ **EEG Signal Processing:** Used Gaussian filter to process and generate Gabor wavelets for EEG dataset (MATLAB, Python)
- ✦ **NLP Classification Research:** Classified Twitter data to predict the occurrence of natural disasters using Senti-BERT and BiLSTM. Compared both models using confusion matrix and F1 score
- ✦ **Animal Breed Image Classification:** Implemented InceptionV3 with EM Clustering Algorithm. Based on the following paper: <https://link.springer.com/article/10.1007/s11063-020-10246-3?noAccess=true>
- ✦ **Biohackerspace:** Increased attendance of the organization by 50% within the first year as lead coordinator for events and marketing
- ✦ **Nile Express (Contract):** Built web platform for processing driver information for Nile Express LLC. Setup up Google Cloud Services and built application as gapp (Google Cloud, Javascript, C#)

WORK EXPERIENCE

ServiceNow, Clinic Team Engineer (Co-op) – Claremont, CA

09/21 – 05/22

Developed static analyzer for assessing quality and efficiency of JavaScript API code for ServiceNow's developer platform.
Languages used: Javascript

- ✦ Utilized Service Now Developer Instance (SDI) to write, test and deploy code
- ✦ Wrote report for analysis of inefficient queries on ServiceNow's Now platform
- ✦ Created pipeline for detecting unindexable queries in ServiceNow's JavaScript API code, then printing discoveries as warning messages for a user
- ✦ Wrote testing suite (unit, integration, and end-to-end tests) and collected analytics on how static analyzer performs
- ✦ Packaging application as ServiceNow Plugin; Including ability to generate a report on query performance for developer instance

Felux, Backend Software Engineer – Remote

04/21 – 09/21

Developed a full-scale application for searching through steel supplier documentation by building .NET REST service and Vue Client App. Languages used: C#, JavaScript. Used Elasticsearch for complex queries

- ✦ Developed web scraper to accumulate data of over 10,000 data points on steel suppliers
- ✦ Built REST service that takes in complex queries, searches, and returns paged results
- ✦ Developed data mappings across several tables in the platform
- ✦ Developed docker containers for easy deployment of app
- ✦ Regularly updated and fixed documentation for different sections of application
- ✦ Created scripts for easing process of initial setup (using docker and C# written executable commands)
- ✦ Helped new employees with initial setup of local environment

Project Morpheus, Clinic Team Engineer (Co-op) – Claremont, CA

09/20 – 11/20

Developed application for collecting raw data from testing tools such as oscilloscopes and spectrum analyzers and displayed simulated scope readings of the data. Languages used: C++

- ✧ Implemented code for reading scope data and storing in MySQL Database.
- ✧ Developed low latency data retrieval by testing search query speeds.
- ✧ Collaborate regularly with team members, and contribute to design and implementation of UI and scope readings

Salesforce (Tableau), Backend Software Engineering Intern – Seattle, WA

06/20 – 09/20

Responsible for collecting and analyzing administrative data for Tableau Server. Languages used: Java, SQL

- ✧ Worked with large codebase, gained familiarity with Perforce and other control version tools
- ✧ Wrote Junit tests for different components of the project
- ✧ Created gRPC service and client to store data in Postgres database
- ✧ Lead scrum review meetings as Scrum Master
- ✧ Created visualizations using Tableau's authoring applications (Desktop and Online).
- ✧ Wrote detailed documentation for the design and implementation of data collector

Harvey Mudd, Teaching Assistant – Claremont, CA

01/18 – 05/19

Responsible for grading and tutoring first three core courses for CS Department at Harvey Mudd (Data Structures, Java Programming, Introduction to CS). Languages used: Python, Java, C++

- ✧ Developed student review guide for introductory class. Saw improvement in grades for several students
- ✧ Helped students gain deep understanding of recursive algorithms, binary trees, and other topics covered in courses
- ✧ Wrote unit tests for different components of project. Debugged several assignments, and gained strong familiarity with debugging tools for Java, C++, and Python

Ravenna Solutions, Design Intern – Seattle, WA

03/17 – 05/17

Designed and developed portions of UI for Ravenna Solutions. Languages used: PHP, HTML/CSS

- ✧ Interviewed over 50 schools and turned data into quantitative metrics for easier analysis
- ✧ Used iterative process to design and implement name pronunciation feature, using PHP for backend
- ✧ Provided feedback of product based on interviews, and introduced areas of improvement in 15-page report and presentation
- ✧ Showed excellent communication and timeliness

HONORS & AWARDS

- ✧ Felux - "Makes Things Happen" Award
- ✧ Claremont Hackathon – Final Winner
- ✧ FIRST Robotics– Regional Award

COMMUNITY ENGAGEMENT

- ✧ Special Olympics – Volunteered to set up playfields and stages
- ✧ Rainier Scholar Council – Organized social events with local businesses and organizations. Helped with social media marketing