Marco Scarlata

650-537-6178 | marcoscarlata@google.com | linkedin.com/in/marco-scarlata | github.com/mscarla2

Skills

Languages : C++, Python, Java, JavaScript, HTML/CSS, SQL
Frameworks: gRPC, Protocol Buffers, Flask, Django, React, Svelte, Bulma
Libraries: TFLite, Node.js, Selenium, SpaCy, Keras, RESTful APIs, SQLite, Pandas, NumPy, NLTK
Tools: Build, Bazel/Blaze, BigQuery, Bash, Git, Kafka, DynamoDB

Experience

Google | **Software Engineer** — San Francisco, CA
Pixel Watch Device Algorithms — *Sep 2022 – Present*

- Building an embedded, low latency Machine learning algorithm using **C++**, **TFLite** and **Python**
- Augmentation and code ownership of the Low Latency Off-body Detection Sensor algorithm through using **C++**
- Decreased the latency and LED falsing rates of Low Latency Off-body Detection, a core touch-point of many different algorithms leading to a statistically significant decrease in power usage and falsing rates

Cloud Asset Inventory & Search

- Productionized a reliable, scalable solution in **C++** for Cloud Asset Inventory to attach structured, enhanced metadata into our centralized data warehouse for cloud-managed assets, impacting **over 90%** of GCP Resources and increasing user adoption YoY with a current user base of **over 500,000** active users
- Assisted in launching Asset Enrichment end to end into Asset Query System using **C++**, **SQL** & **Spanner**, leveraging enriched metadata to deliver efficient query results of **more than 275** GCP asset types for SCC customers
- Onboarded a Google Cloud asset type in a cross-team and cross-functional effort using **C++**, **Python** & **Spanner**
- Drove a cross-team engagement between EngProd and Cloudtop in augmenting Cloudtop's workflow runner using **gRPC**, **Borg** & **Python**, thereby reducing development time by **25%**, saving the equivalent of **10 SWE weeks**

OpenSesame | **Software Engineering Intern** — Portland, OR
Front-End Division — *Jun 2020 – Aug 2020*

- Extended language drop-down feature to include search selection for courses through **Angular** and **TypeScript**
- Extrapolated multiple burn-down processes with Behat, API and Unit tests resulting in locating **over 6** different bugs spawned from the most recent sprints, resolving the bug which prevented the landing page from loading for IE users
- Built out E2E tests through replicating over 10 deprecated legacy tests from Drupal to **Angular** & **Selenium**

ANDSystems | **Machine Learning Intern** — Ulaanbaatar, Mongolia
Machine Learning Team — *Jun 2019 – Aug 2019*

- Analyzed the purchase history of **100,000+** users buying coupons by regression analysis using **Python**, **Pandas**, **NumPy** and **PyTorch**, thereby locating an under-marketed sector in sales that led to a **10%** increase in revenue
- Launched an MVP module-based recommender system with caching for an ecommerce platform called BananaMall with **10,000+** downloads on Playstore and **100,000+ users** using **Python**, **SKLearn** and **DynamoDB**

University of Rochester — Rochester, NY
Teaching Assistant & CETL Tutor — *Sep 2019 – Dec 2021*

- Taught students in the Web Programming, Data Structures & Algorithms and Formal System & Computations courses
- Conducted tutoring sessions with **15+** college students resulting in a **30%** increase in respective course grades

Projects

Trading Algorithm | *Tensorflow, Python, MySQL*

- Developed a mock quantitative investment platform that utilizes Tensorflow to deliver accurate trading predictions
- Includes Python quantitative trading strategies including Pattern Recognition, Commodity Trading Advisor, Monte Carlo, Options Straddle, Heikin-Ashi, Pair Trading and VIX Calculator

Education

University of Rochester — Aug 2018 – May 2022
Bachelors in Computer Science | *Minor in Psychology* — *Rochester, NY*

- **Major GPA**: 3.5/4.0 – Consecutive Dean's List Recipient
- **Relevant Courses**: Data Structures & Algorithms | Formal Systems & Computation | Web Programming | Human Computer Interaction | Intro to Artificial Intelligence | Database Systems | Natural Language Processing |
- Dean's Scholarship & Rochester National Grant Awardee