Marco Scarlata

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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, Spanner

Experience ⌨

Google | Software Engineer   San Francisco, CA
Pixel Watch Device Algorithms   *Sep 2022 – Present*
- Building embedded, low latency Machine learning algorithms to the Pixel Watch product line using **C++** and **TFLite**

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**

Corp EngProd
- 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**
- Assisted in the ongoing efforts of ITS adoption, a new integration suite, by migrating **8** deprecated pain points to ITS in **Python** for the Cloudtop team, reduced individual file sizes by **90%**, leading to more developer velocity

Pital   Remote, NY
Software Engineer   *Jun 2021 – May 2022*
- Assembled an NLP, Web-Scraping tool to scrape state-wide public newsletters utilizing **SpaCy & Streamlit**, thereby collecting over **50,000** creditor notice data points for a curated data collection task
- Constructed a visual AI Assistant app that locates leads by accessing the UpWork API and then training an NLP model which locates optimal leads for contract workers by utilizing **Svelte, Python Flask & SpaCy**
- Spearheaded an MVP for an NFT E-Commerce platform that allows individuals to buy physical merchandise of their NFTs under the Solana blockchain by using the Printful API as well as **Solana.py**, **NodeJS** and **PIL**

OpenSesame   Portland, OR
Software Engineer Intern   *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   Ulaanbaatar, Mongolia
Machine Learning Intern   *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

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