

Daniel Arriola

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EDUCATION

Carnegie Mellon University

GPA: 3.45/4.0

B.S. in Information Systems, Minor in Computer Science & Human Computer Interaction

Aug. 2020 – May 2024

Tartan Scholar, Society of Hispanic Professional Engineers

WORK EXPERIENCE

Google

Youtube Search FrontEnd

Software Engineering Intern

May 2023 – Aug 2023

- Gained a deep understanding of YouTube client to server architecture and process flow.
- Contributed functional code and tests to both the Android (java) and iOS (Obj-C) client code
- Located the specific client-side entry points that lead to server-side search inputs through the search process.
- Launched analytical access point metrics for all client-side abandoned searches for both mobile platforms.
- Added visual SQL data representations to the team dashboard to assist in task planning and resource allocation.

Google

Shopping User Generated Content

STEP Intern

May 2022 – Aug 2022

- Used team resources and meetings to quickly onboard onto the Shopping UGC process flow.
- Worked closely with my STEP partner to outline review matching schema and identify mismatching reasons.
- Improved mismatched reviews debugging efforts with an SQL dashboard displaying visual matching data.
- Implemented a C++ pipeline to calculate review churn from over 3 billion Shopping Review data points.

Carnegie Mellon University

Computing Services

Technology Enhanced Facilities (TEF) Student Operator Manager

Aug. 2021 – Present

- Facilitated computer lab usage by providing first-level troubleshooting and customer support.
- Contributed to Student Operator growth by providing a series of hands-on training and mentoring.
- Became a line of contact between student operators and full-time staff to relay issues and suggestions.

PROJECTS

Fig Tree Archive | *Wix, HTML, CSS, Figma*

Jan. 2023 – May 2023

- Consulted for and worked with the Italian Garden Project nonprofit organization.
- Built a functional visual and interactive archival database website for generational Fig Trees in the US.
- Leveraged a user-friendly pipeline to automatically display fig tree visual, textual, and locational data.

Great Pittsburgh Baking Outlet E-Commerce App | *Ruby on Rails, SQL, HTML*

Jan. 2022 – May 2022

- Designed and created an E-Commerce prototype with a backend relational database supported by Ruby on Rails.
- Learned how to leverage the Model-View-Controller pattern to develop sophisticated software architectures.
- Utilized test driven development to ensure correctness using extensive backend and frontend unit tests.

ACADEMIC LEADERSHIP

15-112 (Fundamentals of Programming) Connections Mentor

August 2022 – Dec. 2022

Student Academic Success Center

- Led a weekly small group of first-year Tartan Scholars taking 15-112: Fundamentals of Programming.
- Mentored my students in important skills necessary to be successful in both academic and professional environments.
- Coached students through practice assessments designed to help them internalize the class content.

Student Operator Mentor

August 2021 – Present

Technology Enhanced Facilities (TEF)

- Mentored student operators about job policies, responsibilities, and software.
- Devised training schedules and organized student resources along with the full-time staff.
- Continuously revised training materials and TEF wiki to best help student operators remain informed.

TECHNOLOGY SKILLS

Programming Languages: Python, C++, C, Obj-C, Java, SML, SQL, HTML, CSS, Ruby

Applications: Git, Vim, VSCode, Xcode, Android Studio

Databases: Postgres, MongoDB, MySQL