

# 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
- Trained 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 the 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