

ERNESTO VALENCIA

ernvalencia.com ▪ linkedin.com/in/ernestovalenciaav/

EXPERIENCE

Dish Network | Sling TV – Associate Software Engineer

Aug 2022 - Present | UT

- Developed and unit tested bug fix to ad-insertion scroll-bar time miscalculation in the Adaptive Player JS

Amazon Lab126 – Software Engineer Intern → return offer extended

May 2022 - Aug 2022 | CA

- Developed website that provides FireTVs information, and smart search engine based on features, filters and countries
- Engineered program to monitor software releases on FireTVs and their acceptances status as well as alerting failures
- Made critical changes to core framework to fix bugs in Prime parental-control locking features affecting Italy & France
- Wrote new automated tests using Pytest for FireTV in Build Acceptance and Regression End to End test suites
- Fixed existing automated tests across many test suites that were failing or needed adaptation to new software releases

BeatBread – Software Engineer Intern

Feb 2022 - Apr 2022 | UT

- Redesigned and developed from scratch white-label landing pages using React previously written in Wordpress
- Integrated main website (beatbread.com) with “Plaid” and “ModernTreasury” to automate linking of bank accounts
- Rewrote scripts written in Python to Node.js to automatically send email to first-time customers using SendGrid API

BYU Computer Science –

Research Assistant

Apr 2021 - Apr 2022 | UT

- Developed a research tool to study human behavior and the impact of artificial agents using Angular and JavaScript
- Introduced a chat system that allows group creation, public and private messaging, along with anonymous messaging
- Improved communication data by 200x which led to more sophisticated research data results and discoveries

Teaching Assistant

Jan 2021 - Apr 2022 | UT

- Taught software engineering principles to 150+ students in the CS 202 & 203 software lab series
- Subjects (not limited to): Git, Java, Debugging, UI design, JUnit testing, JMeter, SonarLint, Selenium, Mockito, Style
- Held lab sessions, graded and provided feedback on assignments, and debugged code live with students

EDUCATION

Brigham Young University – Junior

- B.S. Computer Science, SWE – 3.86/4.0 GPA
- Full Tuition Scholarship - Honors Program Student
- BYU Dev Club; Competitive Programming; UX/UI

SOFTWARE SKILLS

- **Proficient in:** Java, C++, JavaScript, HTML, CSS, React, Vue
- **Worked in:** SQL, MongoDB, Node, AWS, Git, Dart, Flutter, Python, Swift, Angular, C, C#, Jenkins, Docker, Pytest
- **Interests:** AI Research, Software Dev, Web Dev

PROJECTS

Blood Matching Project – Founder/Developer

May 2021 - Sep 2021 | UT

- Created website using AngularJS to allow public to register as donors or receptors of COVID-19 plasma
- Developed algorithm to match donors and receptors taking into account blood type and location proximity

Other Projects

- Founder & developer of recipes website (mamakassrecipes.web.app) with current plans to turn into a social a media
- Programmed an Android app that uses shape recognition to identify number of bacteria in a lab-grown colony
- Engineered Android app to locate, search, and manage for Family events in a Google Map. Java based server with SQL
- Developed a Spelling Corrector using Java that takes into account the number of times a possible word has been used
- Programmed a prime number tester using Python that tests Fermat’s theorem and Miller-Rabin test (higher accuracy)
- Used divide and conquer approach to create a Convex Hull Solver with a total complexity of $O(n\log(n))$ using Python
- Developed a program to provide randomized scripture verses to read at selected/available times of the day

LEADERSHIP/OTHER

Faith El Salvador – Founder

May 2020 - Dec 2020 | SLV

- Achieved 60+ partnerships food for 3k+ families affected by COVID19 economic shutdown in extreme poverty

Other

- 1st Place in Business Case Competition by Silicon Valley Bank - redesigned and developed new app within a week
- Played the electric guitar and sang in a band for 2 years