

Arze Lu

English / Mandarin

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EDUCATION

Master of Science - Computer Science

California State Polytechnic University, Pomona

Expected Graduation: May 2025

Pomona, CA

Bachelor of Science - Computer Science

California State University - Channel Islands | Cumulative GPA - 3.6/4.0

Graduated: Dec 2022

Camarillo, CA

Minors: Math, Computer Security Systems and Engineering

SKILLS

- **Languages:** Java, C++, C, Python, HTML/CSS, JavaScript, SQL, R, x86 Assembly, Matlab, Flutter, Dart
- **Libraries:** React.js, Node.js, Bootstrap, NumPy, Matplotlib, Discord API, Bootstrap, jQuery, PrismJS,
- **Databases:** NoSQL, MySQL, Google products (Firebase, Firestore, Cloud Storage), Microsoft SQL Server, Realtime Database
- **Software, and Tools:** Docker, Git, Github, Maven, Android Studio, Objectbox, XML, JSON

PROFESSIONAL EXPERIENCE

Plot-A-Thon Contest

Contestant

Camarillo, CA

Feb 2023 - Feb 2023

- Won first place in the category of data storytelling using Python and the library Matplotlib to create graphs of different types.
- Won second place in the category of presentation in both the delivery and imagery.

Gainwell Technologies

C-Unix Programming Software Engineer Intern

Remote

May 2022 - Aug 2022

- Collaborated with a mentor and his professional team to improve Medicaid software. Received dedicated healthcare training.
- Worked primarily with C and Unix, organized by GitHub with the Agile method and code review calls every morning.
- Helped with constructing header files and maintaining code structure by refactoring and other methods.
- Learned about other departments by interviewing their leaders.

Stemnarts

Computer Science / Math tutor

Remote

May 2021 - Oct 2022

- Made graphics to explain concepts such as pointers, arrays of different dimensions, machine language operations, etc.

ICPC (International Collegiate Programming Contest)

Contestant

Camarillo, CA

Feb 2022 - Feb 2022

- Led a team of three, and brainstorming sessions for complex C++ coding challenges under a time constraint.
- Crafted sketches of algorithms with the team for each of the problems.

PROJECTS

Personal Website [ArzeLu/PersonalWebsite \(github.com\)](#)

June 2023 - Present

- Learned Javascript and CSS and utilized Bootstrap, jQuery, PrismJS, XML, and other tools and libraries for the project.

iOS/Android Mobile App Development - Mittens [ArzeLu/Mittens \(github.com\)](#)

May 2023 - Present

- Learned Google Flutter, and maintained user data using Google Firestore, and Firebase.
- Designed multiple data syncing algorithms between Hive and different cloud storages, as well as online/offline compatibility

Website and Database Design - Starting Point website

May 2022

- Designed a full-stack website utilizing MySQL of phpMyAdmin, XAMPP, and WordPress for a non-profit Starting Point organization.
- Led a team of four with design and implementing decisions; organized team meetings, set project goals, and motivated the team with project research.
- Interviewed directly with the client to discuss goals and changes.

C-based Project - Interpreter

Nov 2021

- Implemented challenging algorithm mapping involving nested linked nodes, traversal challenges, and tracking data across files.
- Utilized Windows Subsystem Linux environment, Unix commands, Regex, and CMake.