

Lawrence Jing

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Education

University of Michigan, Ann Arbor

Bachelor of Science Engineering in Computer Science, Minor in Mathematics

May 2022

GPA: 3.7/4.0

Skills

Skills: Git, Docker, Jupyter Notebook, Postman, AWS, Google Flutter, Microsoft PowerApps, Angular, Excel

Languages: C++, Java, Python, JavaScript/TypeScript, C, HTML, CSS, Dart, SQL, VBA

Relevant Courses: Operating Systems, Machine Learning, Database Management Systems, Computer Architecture, Data Structures & Algorithms, Statistics, Probability, Differential Equations, Multivariable Calculus, Linear Algebra

Professional Experience

Autodesk

May 2021 – August 2021

Software Engineering Intern, Cloud Automation Team

- Developed full-stack features in the Autodesk companion app to make employees more efficient using Flutter, Microsoft PowerApps, AWS, and Node.js to be used by all 10,000+ employees
- Presented to senior VPs to set baseline mobile app development procedures for digital enterprise services division
- Developed REST API for a management app using Node.js and AWS (1000 users)

Comet

August 2020 – May 2021

Software Development Engineering Intern

- Developed and unit tested front-end Comet features using Angular and TypeScript, being used by 500 beta testers
- Enhanced and maintained Comet's cloud infrastructure and backend database using MySQL and Node.js

Sertified Casting

April 2020 – August 2020

Mobile App Development Intern, Social Media Intern

- Designed profile pages for a talent acquisition app with Flutter to be deployed to both iOS and Android platforms
- Created daily social media schedule, generating thousands of views on Sertified Casting's TikTok and Instagram

Projects/Activities

Flutter Apps – BMI Calculator, Online Weather App

May 2020 – June 2020

Developer – Google Play Store

- Multi-screen apps with functionality and full-on styling with custom-built Flutter widgets
- **Weather App:** Allows users to enter in any city and see the weather. Uses the online OpenWeatherMap API to collect real-time data. Also uses the GPS to get user's live location/weather data
- **BMI Calculator:** Allows user to enter biometrics in either the metric or imperial system and accurately computes the BMI and displays an explanation about the result (100+ downloads)

Mock Facebook Database Management System

Feb 2021

- Created a fake database management system impersonating Facebook using SQL and Java complete with users, cities, education programs, photos, and tags tables, among others
- Created 10 complex queries to accommodate specific and complicated requests that user's might have

Multistage Pipeline Processor

Dec 2020

- Created a multi-stage pipeline processor using C and assembly language
- Developed an assembler and simulator to allow for unit tests of the processor
- Incorporated cache blocks to take advantage of temporal and spatial locality, improving runtime by ~300%

MHacks

April 2020 – May 2021

Technology and Sponsorship core team

- Helped secure sponsorships from companies such as Goldman Sachs and Walmart to a total of over \$100,000
- Spearheaded the transition from Kotlin/Swift apps to a Flutter app for the hackathon