

Chang You (she / her)

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Relevant Experience

Production Engineer Fellow @ Major League Hacking (Powered by Facebook) Jun 2021 - Aug 2021 // Remote

- Selected from over 20,000 applicants for joint software and systems engineering program with Facebook
- Administered, configured, and upgraded Linux systems to efficiently build and manage a production **Linux** infrastructure with Bash scripting
- Set up VPS and **CI/CD** to monitor applications in production, considering memory management, latency, and response times

Software Engineer Intern @ Bargo Pay July 2020 - Sept 2020 // Remote

- Launched Blismo (for consumer) and Blisness (for local business) in iOS Apps and Android apps
- Implemented coupon collection feature with asynchronous **Flutter** frontend
- Designed APIs and database schema for takeout feature. Implemented Backend and REST API using **NodeJS**, Express, and Firebase.
- Built rate limiter and improved average API response time by 11x

Selected Projects

Job+: AWS Web Service Development – Job Search & Recommendation

Front End:

- Designed and implemented an interactive web page using HTML/CSS/AJAX for users to search and apply for available job positions. Used favorite records to provide personalized position recommendations.

Back End:

- Used **MySQL** database on **Amazon RDS** to store position data fetched from GitHub API.
- Designed algorithms (content-based recommendation) to implement job recommendations
- Deployed server side to Amazon **EC2** to handle 150 queries per second tested by **Apache JMeter**

Starlink: React JS based Starlink Trajectory Visualization

- Designed and developed a visualization dashboard using **ReactJS** and **D3** to track satellites in real-time based on geo-location.
- Built location, altitude, and duration-based selector to refine satellite search.
- Animated selected satellite paths on a world map using D3 to improve the user-friendliness. Deployed the dashboard to Amazon Web Service for demonstration

Hermes: a Spring and Hibernate based Shopping and Ordering system

- Built a web application based on **Spring MVC** for users to shop and order items online, and support item search and listing (dependency injection, inversion of control, REST API, etc.).
- Implemented security workflow via in-memory and **JDBC** authentication provided by Spring Security.
- Utilized **Hibernate** to provide better support of database operations
- Developed a Spring Web Flow to support item ordering

Tinnews: a Tinder-like News App

- Designed Instagram Flavor News app based on **Google Component Architectural** MVVM Pattern. Implemented the bottom bar & page navigation using **JetPack** navigation component
- Built the Room Database with LiveData & ViewModel to support the local cache and offline model
- Integrated **Retrofit** and **Rxjava** to pull the latest news data from a RESTFUL endpoint (newsapi.org)

Education

Santa Clara University

Santa Clara, CA

Expected: Mar 2023

B.S. in Computer Science and Mathematics (GPA: 3.85)

Relevant Coursework

- Programming Languages
- Theory of Algorithms
- Database Management
- Operating Systems
- Embedded Systems
- Data Structure
- Cloud Computing
- Computer Networks

Technical Skills

Programming Languages

Java, Python, C++, HTML, CSS/Sass, Ruby, Go, JavaScript(ES6), TypeScript

Databases & Frameworks

MySQL, MongoDB, PostgreSQL, Ruby on Rails, React.js, Node.js, Django

Tools & Platforms

Git, Unit Test, Docker, Agile, Android Studio, Linux

Leadership & Organizations

- **Founder & Lead** - **GDSC** (Google Developer Student Club) SCU Chapter
- **Committee Member** - **AnitaB.org** Mentorship Program for Women in Tech
- **Member** - SCU ACM, Tapia, Lesbians Who Tech, GHC

Interests

K-pop Dancing, Piano, Investing, Reading, Workout, Traveling, Design, Volunteering