Ezekiel Kim

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EDUCATION

University of California, Los Angeles — Los Angeles, CA

Bachelor of Science in Computer Science — *Expected June 2025*

- Research Interests: Audio Digital Signal Processing, Neural DSP, OpenBCI, EEG, Convolutional Neural Networks
- Clubs & Organizations: CruX Neurotech, Association of Computing Machinery - Cybersecurity
- Relevant Courses: Software Construction, Algorithms, Computer Vision and Machine Learning, Compilers, Logic and Design of Systems, Discrete Mathematics, Data Structures, Assembly

EXPERIENCE

Cloud Infrastructure Engineering Intern — Jan 2023 – June 2023

R&B Networks — *Irvine, CA*

- Created **version-controlled** cloud infrastructure for several companies using **Terraform**.
- Automated S3 Bucket creations saving **human resource** on AWS cloud needs.
- Implemented a "check-out" feature on PowerBI for CAD files **saving server maintenance costs by 80%**.
- Provided troubleshooting and infrastructure support to customers for cloud syncing issues in **Azure Cloud**.

Software Engineering Intern — June 2020 – Aug 2020

WNC Inc. — *Irvine, CA*

- Spearheaded the update of WNC's Real Estate Site Inspection Application to iOS 13+ Compatibility.
- Migrated the application from **Objective-C** and **UIKit** to **Swift** and **SwiftUI**.
- Educated SwiftUI app architecture and Swift basic syntax to current Software Engineers.

PROJECTS

Fork | Swift Lead Dev | *Swift, SwiftUI, Firebase, FastAPI, AWS* — Oct 2023 – Present

- Develop an iOS nutrition tracking app counting macros at university dining halls.
- Implement Phone auth and **OAuth** Sign-in methods.
- Configure **Silent APNs** for background CoreLocation updates.
- Review and test user interface PRs using **AGILE** development methods.

Oakdale Roastery | *React, Next.js, Prisma, Tailwind, PostgreSQL* — May 2023 – Aug 2023

- Created a business platform to empower the sale of coffee dispensing machines and roasted coffee for consumers.
- Empowered the business owner with infrastructure to collect payment, issue invoices, and review statistics.
- Engineered a custom authentication flow using NextAuth **RBAC** for differing customer needs.
- Enabled **CI/CD** using **Docker**, **Kubernetes**, and **Azure AKS**.

Assembly Text Editor | *ARM Assembly, C, C++* — Nov 2022 – Dec 2022

- Engineered a linked list implementation using Assembly for easy note taking and indexing.
- Utilized **linker commands** to program native linux ARM assembly in C programs.
- Scripted a **Makefile** in **bash** for users to install and use the program easily.

AdoptMe | Lead Dev | *Swift, SwiftUI, DynamoDB, API Gateway* — Feb 2022 – May 2022

- Created a pet adoption swiping app to create a **preference algorithm** and allow users to find their ideal pet.
- Led a team of four code reviewing PRs over Github and Jira boards.
- Utilized AWS **Lambda Functions** to assign breed preference to users.
- Engineered a scalable **key-value** database using DynamoDB exposed on API Gateway.

TECHNICAL SKILLS

Languages: C/C++, Python, Java, Swift, Kotlin, Bash, SQL (Postgres), Typescript, R, Scala, Perl, Rust, Go, C#
Frameworks: React, Next.js, Node.js, SwiftUI, UIKit, Vue.js, Tailwind, Springboot, FastAPI, Qt, JUCE
Developer Tools: Git, Docker, Kubernetes, AWS, Azure, AKS, Firebase, Supabase, Postman