

Min Zhe Cheah

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EDUCATION

University of California, Berkeley

BA in Data Science

Coursework: Data Structures & Algorithms, Statistics, Machine Learning, Data Mining, Data Engineering, Database Systems, OOP, Linear Algebra, Differential Equations, Probability, Multivariable Calculus, Computer Security

SKILLS

Languages : Python, Java, Go, C, C++, JavaScript/TypeScript, SQL, HTML/CSS, Bash

Frontend : React/Next.js (web), React Native/Expo (mobile)

Backend : Node.js, Express.js, PostgreSQL, MongoDB, NoSQL, Firebase, REST APIs, FastAPI, Stripe, ASP.NET Core

Cloud & DevOps : GCP, AWS (S3, DynamoDB, Lambda), Docker, Kubernetes, Vercel, Render, Git, GitHub Actions

Data & Machine Learning : Pandas, NumPy, SciKit-learn, PyTorch, OpenAI API, LangChain

EXPERIENCE

Illominate Ed Tech

Software Engineer Intern - Full Stack & Mobile Development

Los Angeles, CA

July 2025 - September 2025

- Designed and implemented a payment processing system using React Native that reduced transaction failures by 37% and increasing successful payments
- Developed 12+ backend REST APIs using ASP.NET Core and C#, deployed as AWS Lambda microservices via API Gateway for smoother mobile integration
- Automated CI/CD pipelines (5–7 builds weekly), reducing post-launch issues by 25% and improving release stability

FHL Vive Center for Enhanced Reality

Software Engineer- Backend & LLM Development (Research Project)

Berkeley, CA

June 2024 - December 2024

- Integrated OPEN AI APIs and optimized LLM models, improving response relevance and speed by 20%
- Built a (RAG) pipeline to convert text passage chunks into embeddings, accompanied with a built-in mechanism to evaluate retrieval accuracy and response speed
- Deployed OpenAI Whisper for automated video-to-text conversion, enabling multimodal lecture transcription

See Hau Global

Data Engineer Intern

Kuala Lumpur, Malaysia

May 2023 - August 2023

- Boosted reporting efficiency by 40% by structuring sales, manufacturing, and supply chain data using Oracle Fusion Cloud ERP.
- Built Python/SQL dashboards and predictive analytics tools, cutting reporting time by 30% and enhancing visibility
- Identified delays and bottlenecks causing a 12% drop in fulfillment, translating analytics into actionable process improvements.

PROJECTS

AutoTrip (Calhacks 12.0)

October 2025

TypeScript, Next.js, TailwindCSS, Python, LangChain, Vercel, Render

- Developed an AI-agent travel web app with FastAPI that integrates Google Maps, Amadeus, and Instagram APIs, generating optimal routes, hotel suggestions, and trending attractions in real time
- Leveraged LangChain and OpenAI to summarize and personalize itineraries, producing outputs with cost breakdown, travel times, and embedded maps
- Deployed web app via Vercel and Render while implementing async API handling, caching, and data validation for faster reliable performance

Dropbox Clone

July 2025

Go, Cryptography, Datastore, Distributed Systems

- Lead the design of a secure file storage and retrieval system using encrypted metadata, HMAC verification, and linked-list style data blocks to ensure confidentiality and integrity of user files
- Built file sharing and invitation mechanisms with public-key encryption and digital signatures, enabling secure access grants without content duplication
- Implemented revocation using key rotation and queues to remove access while preserving authorized users

Prompt Driven

Open Source Contribution, Python

September 2025 - October 2025

- Implemented stdout/stderr capture and display system for PDD CLI's sync command, improving debugging visibility across 6 core operations, reducing debugging time by 20%