Jimmy Chung

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SKILLS

TECHNICAL SKILLS

Proficient:
TypeScript • React.js • Next.js
Node.js • HTML • CSS • Tailwind • Redux •
Swift • C

Familiar:
SQL • Java • GraphQL • SASS • Python
Docker • Kubernetes • iOS Development •
Android Development
GCP • AWS • CircleCI • Solidity

Worked With:
Three.js • Solidity • Ethereum Development
• C++ • Machine Learning • Objective-C

PERSONAL PROJECTS

DECENTRALIZED CROP INSURANCE WITH CHAINLINK INTEGRATION

Summer 2022

- Hybrid smart contract contains the index, client wallet address, contract dates/duration, index measurement details, thresholds and payout values.
- Technologies: Solidity, Ethereum, Chainlink

SELF ORGANIZING MAP

Winter 2020

- Self Organizing Map (SOM) used to estimate probability of fraud in credit card applications
- MiniSom library used to train 100 node Self Organizing Map

DISTRIBUTED SUPPLY CHAIN MANAGEMENT APPLICATION ON THE ETHEREUM PROTOCOL

Fall 2019

- ERC-20 complaint payment token developed using Solidity with Geth ethereum client, Truffle framework

EDUCATION

QUEEN'S UNIVERSITY

Computer Engineering
2015-2019 | Kingston, ON

AMAZON WEB SERVICES

Certified Solutions Architect - Associate
October 2020

EXPERIENCE

NURAU | Senior Software Engineer

Oct 2024 - Present

- Architected and implemented an enterprise-grade AI coaching system leveraging Langchain
- Developed a hybrid vector search system for Retrieval Augmented Generation (RAG) combining FAISS and Qdrant vector databases to enable context-aware AI responses, implementing custom similarity thresholds and metadata filtering for organization-specific document retrieval while improving retrieval times by 90 percent.
- Nurau is a AI conversational coach engaging front line managers with critical insights in real time, helping them take action and resolve issues when it matters most.

CHEXY | Senior Full Stack Engineer

Nov 2022 - Oct 2024

- Brought on as Founding Engineer, with working MVP built within 1.5 months with first user
- Architected payments system with ZUM rails and Payroc APIs, processing over $100 million annual TPV while ensuring PCI compliance
- Pursed migration to Next.js as the primary framework, ensuring seamless server-side rendering
- Implemented GCP Cloud Tasks to manage asynchronous task execution
- Architected and developed a system which enabled credit reporting of rent payments to Equifax via the Metro2 format.
- Implemented Firebase Authentication, Cloud Functions, with Cloud Firestore NoSQL database
- Integrated Plaid's identity verification solution to streamline the onboarding process and enhance user authentication and fraud detection capabilities
- Adhered to CI/CD development practises by creating deployment pipeline with CircleCI

VERIZON BUSINESS | Software Engineer

Dec 2021 - Nov 2022

- Wholesale permissioned blockchain application on Hyperledger Fabric
- Managing production workloads on Elastic Kubernetes Service and Amazon Managed Blockchain
- Dockerized backend services using docker-compose with docker images stored in Jfrog Artifactory
- Created stored procedures and indexes on Oracle DB with PL/SQL reducing query execution times by up to 90
- Provisioned multi region AWS resources with Cloudformation stacks and stack sets

RIDEUP | Co-Founder & Software Engineer

May 2019 – Dec 2021

- Developed React single page application with Redux state management, routing with React Router, React Hooks implemented throughout
- Migrated database from MongoDB to PostgresSQL
- Deploying and managing microservices architecture with Docker and Kubernetes conjunction with Google Cloud Kubernetes Engine (GKE).