# Jimmy Chung

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## SKILLS

### TECHNICAL SKILLS

**Proficient:**
JavaScript • TypeScript • React.js • Redux
Node.js • HTML • CSS • Swift • C • Git

**Familiar:**
SQL • Java • GraphQL • SASS • Python
Docker • Kubernetes • Machine Learning
iOS Development • Android Development
GCP • AWS • CircleCI • Jira

**Worked With:**
Three.js • Solidity • Ethereum Development
• C++ • Objective-C • Unity

## 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

2015-2018 | Kingston, ON

### AMAZON WEB SERVICES

#### CERTIFIED SOLUTIONS ARCHITECT - ASSOCIATE

October 2020

## EXPERIENCE

### CHEXY | SENIOR FULL STACK ENGINEER

Dec 2022 - Present

- The first ever rewards program for renters, allowing them to automate and digitize rent payments, build credit, and earn rewards.
- Developed React single page application with React Hooks
- Implemented Firebase Authentication, Cloud Functions, with Cloud Firestore NoSQL database
- Integrated ZUM rails payment API, webhooks utilized for push notification system
- Adhered to CI/CD development practises by creating deployment pipeline with CircleCI
- Architected mobile application with React Native

### 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
- Jenkins pipelines integrated with Ansible Playbooks to automate ETL processes and deployment of microservices
- Kubernetes, Docker, Jenkins, Ansible, Gitlab, Hyperledger Fabric, ReactJS, AWS EKS, AWS S3, AWS RDS, AWS EC2, AWS AMB, AWS Cloudformation

### RIDEUP | CO-FOUNDER & SOFTWARE ENGINEER

May 2019 – Dev 2021 | Markham, ON

**Frontend:**

- Developed React single page application with Redux state management, routing with React Router, React Hooks implemented throughout
- Pursued robust testing with Jest, React Testing Library and Cypress
- Authenticated users with Firebase Authentication, Stripe Connect facilitating payments
- Twilio API, Google Places, Routes API implementation
- Migrated codebase from Javascript to Typescript

**Backend & Devops:**

- RESTful API with Node and Express complete with Mocha and Chai unit testing, GraphQL API implemented with express-graphql
- Configured AWS S3 to store user files from Android, iOS and Web applications.
- Migrated database from MongoDB to PostgresSQL
- Deploying and managing microservices architecture with Docker and Kubernetes conjunction with Google Cloud Kubernetes Engine (GKE).
- Ensured scalability with Horizontal pod autoscaling and Cluster autoscaling, utilized Nginx Ingress for load balancing
- Enabled realtime, bi-directional communication between backend and client with Socket.io
- Adhered to CI/CD development practices with CircleCI & Bitbucket
- Automated local Kubernetes development with Skaffold

**iOS:**

- Implemented user interface with UIKit, MVC pattern
- Utilized weak variables to avoid retain cycles due to automatic reference counting