

Denton Sun

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WORK EXPERIENCE

Movmint

Vancouver, British Columbia

Software Engineer

Jan 2024 - Present

- Spearheading the development of a new offline CBDC payments solution, attracting **3** new potential business deals with international central banks while enhancing project visibility by **60%** within the first quarter of demo launch
- Configuring hardware security modules (HSMs) and rotating JWTs to securely sign and verify payments, manage keys and seed phrases with recovery protocols, and securing the payment backend through FastAPI endpoints
- Developing and maintaining a RESTful API backend payment system using Node and Express. Leveraging Redis for low-latency payment processing (**<500ms**), BullMQ for load moderation, and PostgreSQL for persistent storage. All hosted on AWS Elasticache, RDS, and EKS for fast scaling and CI/CD pipelines
- Leading integration of IAM security layer with Golang for new FX remittance service using Ory and Kong Gateway to facilitate OAuth2.0 security and RBAC permissioning on internal and external API calls.
- Implementing scalable software solutions to automate financial reconciliation processes, ensuring high reliability and correctness in transaction handling, reducing uncaught errors by over **95%** while detecting fraud

University of British Columbia

Vancouver, British Columbia

Undergraduate Teaching Assistant for SCIE_V 100

Oct 2022 - Jan 2023

- Designed and led interactive tutorials for **15** students, implementing hands-on coding exercises that improved their problem-solving skills and increased program grades performance **12%** above class averages

Whatifi

Vancouver, British Columbia

Software Developer Intern

Jan 2022 - Oct 2022

- Developed a codeless node-based financial modeling app in Typescript, extending product features that allowed models to handle **100s** of more unique use-cases and forecast valuable KPIs for customers
- Increased efficiency for large financial models by over **300%** by simplifying back-end calculations in Golang

PROJECT EXPERIENCE

Esports Game Analyzer

- Integrated with the RiotGames API to fetch, analyze and plot live match data using NumPy, Pandas and Matplotlib to improve player performance by highlighting critical game-winning metrics

ThoughtSlothAI Mental Health Journaling - HacktheNorth

- Developed an Android app in Java with Firebase backend to track mood data and trends. Integrated a TensorFlow NLP model classification with **90%** accuracy and explored inference with TensorFlow Lite.

LEADERSHIP EXPERIENCE

UBC Hong Kong Students Association

Vancouver, British Columbia

Director of Marketing

Sep 2022 - Dec 2024

- Directed a team of **15** marketing students within an 80-member club, elevating event attendance by **60%**, and revenue by over **40%** through the execution of targeted social media campaigns and promotional strategies

EDUCATION

University of British Columbia

Vancouver, British Columbia

BSc Computer Science, Exchange term at NTU Singapore

Graduation Date: May 2024

Senior Coursework: AI/ML, Networking, Data Structures and Algorithms, Databases

SKILLS & INTERESTS

Skills: Python, Javascript, Typescript, Golang, Redis, AWS, Redis, PostgreSQL, Kubernetes, Docker, Git, MongoDB

Interests: Weight Training, Pickleball, Cooking, Golf