Ivan Ho

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San Francisco, CA Jan 2024 - Present

Dec 2020 - Feb 2021

WORK EXPERIENCE

Dots (YC S21)	San Francisco, CA		
• Software Engineer #2	Jan 2024 - Present		
• Product Engineering: Developing end-to-end features by providing a robust API and UI for clients to make			
payments and payouts, while also ensuring thorough compliance and monitoring. Features worked on include			
transaction fraud detection, custom sender signature emails, and development of a full a	ccounts payable product.		
Open Government Products	Singapore		
Senior Software Engineer	Jan 2022 - Jan 2024		
• Cloud Infrastructure: Rearchitected and developed cloud infrastructure for the nation	nal parking payment system		
(ParkingSG) on AWS via CDK and added robust monitoring with DataDog and Cronite	or. Increased system		
maintainability by reducing debug time by at least twofold. The system facilitates over 5	50k parking sessions daily.		
• Payment Infrastructure: Built payment infrastructure for the national voucher distri	bution system (RedeemSG)		
which facilitates payouts to merchants with an average daily transaction volume of ~ 1 n	nillion SGD using AWS		
Batch, EventBridge, Lambda, and API Gateway via CDK. Implemented thorough audit	checks and monitoring to		
ensure correctness of transactions and settlements.			
• Merchant Integration: Led integration of RedeemSG with the nation's 6 largest supe	rmarket chains and		
developed key features like API access design, idempotency protocol, and financial recon	ciliation.		
• Mobile Development: Maintained and developed features for both RedeemSG & Park	xingSG React Native mobile		
apps. Tracked issues, investigated bugs, and made releases via App Store/Google Play/I	Microsoft CodePush.		
• Analytics & Automation: Built Grafana dashboards and wrote SQL queries to track	key product metrics.		
Utilized Selenium to automate snapshotting of selected dashboards to make load time in	stantaneous.		
Caladan (prev. Alphalab Capital)	Singapore		
Software Engineer Intern	May 2021 - Jul 2021		

- Trading Infrastructure: Integrated existing trading infrastructure (Python) to new cryptocurrency exchanges for low latency quote retrieval and trade execution. Optimized several parts of infra-to-exchange interactions with A/B arbitration and hot code path analysis with Cython.
- **Internal Tooling**: Built internal tools to manage core trading entities with React, Express and PostgreSQL. Remote, Singapore
- HeadsUp (acquired by Hightouch)
- Software Engineer Intern #1
 - Cloud Infrastructure: Migrated entire tech stack from AWS to Heroku to expedite development speed.
 - Data Integration: Implemented end to end data source to destination sync feature with Next.js frontend and Flask + Airflow backend. Data integrations include Snowflake, Redshift and BigQuery.
- Canoo

Los Angeles, CA

- Aug 2019 Mar 2020
- Internal Tooling: Built a vehicle monitoring platform from scratch with React, Serverless framework on AWS.
- Data Pipelines: Constructed data pipelines from vehicle to cloud with AWS IoT Core, Lambda and DynamoDB. PayPal Singapore

Software Engineer Intern

Software Engineer Intern

May 2019 - Jul 2019 • **Compliance Testing**: Wrote rigorous functional tests for validation of compliance decisions with TestNG.

Projects

Claims Automation: Reduced company's claim process time by 80% via automation using Slack APIs and Selenium.

Data Management: Built an internal platform to manage administrative student data used by 500+ hostel residents.

Programming Skills

Technologies: AWS, Flask, Express, Node.js, React, PostgreSQL • Languages: JavaScript, TypeScript, Python, SQL

Education

National	University	of Singapore

- Bachelor of Computing (Honors) in Computer Science
 - Distinction in Database Systems Focus Area
 - Teaching Assistant for CS2030 Programming Methodology II
 - Varsity Floorball Team, Sheares Hall Floorball Captain & Web IC

*Work Authorization: Singapore Citizen; Eligible for H-1B1 Singapore Visa without lottery and petition.

Singapore Aug. 2017 - Dec. 2021