Vinn

SWE | Grad @ UWO | 4+ years exp

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About Me

*Enthusiastic engineer with about **4 years experience**, adept at prepping resources from scratch for research and development. Has extensive background in cloud technologies and software developments. **Actively looking out for Fall-2025 full-time opportunities***

Programming Skills: Proficient in **Golang, Typescript/JS and Python**. Familiar with HTML, CSS, React and Next JS

Database Skills: SQL - PostgreSQL, MySQL, NoSQL - DynamoDB, MongoDB, Graph - NeptuneDB.

Cloud Platform Skills: AWS, GCP, Nimbix (for FPGA)

Other Tech Skills: Docker, Kubernetes, Opentelemetry, Redis, ELK, Prometheus, Firebase, Terraform, gRPC, GraphQL, Git.

Other Skills: SumoLogic, Retool, Algolia, Amplitude, Figma Wireframes, Jira, Dynatrace, NewRelic.

Education:

Western University Ontario
(London, Canada | Sept 2024 - Sept 2025)

- Fall 2024 - MEng in Software Engineering.

University of Nottingham
(Ningbo, China | Sept 2017 - July 2020)

- Cumulative Average: 2:1 UK Grade - BEng Honours in Mechatronics (approx: 3.4/4.00 GPA)

- Awards: Head's Scholarship for Academic Excellence

- Had great time collaborating and making friends with diverse people around the world

Relevant Experience

Acquia

Software Engineer - Observability *(WFH| Full-time) (India | Aug 2023 - Aug 2024)*

Tech: AWS, Golang, Python, OpenTelemtry, Prometheus, Docker, K8s, Terraform, ArgoCD, SumoLogic, NewRelic

> Acquia is a PaaS company headquartered in Boston, USA, provides cloud-based tools for scalable hosting infrastructure optimized for Drupal.

> Working with the observability team to utilize open source tools to automate the application/container logs, metrics in kubernetes clusters and ec2 machines. Acquia cloud currently runs 60k+ pods for around 6k customers.

> Configured the scraping rules on prometheus and created processors for opentelemetry collector for masking and filtering of logs messages and custom metrics. Proposed a new design to achieve high availability for metrics scraping which is currently under development.

> Took ownership of multiple quarterly epics for new features and upgrades. Pitched various improvements for better software practices for productive sprint closures and OKRs. Goes on primary on-call for all observability components and maintains for Audit Controls.

Loco.gg

Software Development Engineer - 1 *(WFH| Full-time) (India | Jul - 2021 - Aug 2023)*

Tech: AWS, K8s, Docker, Golang, Typescript, Python, Lua, Ansible, DynamoDb, PostgreSQL, Redis, Firestore, Mqtt, SQS, S3.

> Loco is a live video streaming platform (similar to twitch) backed up with Hashed with 50million USD funding from seed and series A funding rounds.

> Worked with the backend team. Responsible for **analyzing the requirements laid by the Product Managers and developing the backend services** for the platform. Took ownership of multiple services and collaborated with data team, frontend and mobile devs and directly reports to the CTO.

> Upgraded live-stream chat service to **leverage kubernetes jobs** and personalized chat configs for streams. Designed and moved chat feature from MQTT to API-based integration, improving client-side integration achieved near 0% downtime on VerneMQ broker. Enabled replay chat, moderator configs, real-time live views count and analytics for data pipelines.

> Designed and built the backend system for performance monitoring and payment cycle automation for streamers.

> Introduced **leaderboards services** to gamify users and streamers performance and on arena games.

> Introduced a new **API based near real time personalized notification service** that can be used across site to provide dynamic notifications to targeted users.

> Enhanced the current trending and search flow across platform using algolia.

> Designed and built the **Loco's new Web 3.0 Project which involves NFT based esports tournaments** from scratch the web2 part of services for **onboarding, marketplace, tournaments, rewards and wallet features**. Added KYC Automation and Bank/UPI payment features. Added algolia for marketplace search.

Freelance Node JS Developer
(WFH| Part-time) (India | April - 2021 - June 2021)

- Worked as a Freelancer with stipend making APIs using Node js, Mysql for Library Book Search.

Accuknox

Software Engineer *(WFH| Full-time) (India | Aug - 2020 - April 2021)*

Tech: GCP, Golang, Python, ML algorithm(VAE), Docker, K8s, Cilium, Sysdig(ebpf), kafka, Terraform, GCS, GRPC

> Accuknox is a silicon valley startup. Worked with the core backend team and collaborated with Scientists from Stanford Research Institute International, Incubator.

> Responsible for developing, testing and improvising the core feature of the platform: **ML Anomaly Detection using VAE algorithm and Container Security.** Developed the **API manager microservice using Golang** for the product feature and deployed in GKE.

> Defined and worked on requirements with other teams and improved codes for integrations.

University of Nottingham
Summer Research Intern   _(On Campus) (Ningbo | Summer 2019)_

> Development of **AI accelerated FPGA for Computer Vision Algorithm** for Autonomous Vehicles.
> Successfully demonstrated YOLO object detection, Semantic Segmentation and Road lane detection onto CPU. Developed and Trained the Algorithm on cloud and Xilinx ZCU102 FPGA (Worked in Python)

International Connectors, USA
Young Innovator Fellowship   _(Online) (Ningbo | Feb 2019 - April 2019)_

> Worked with other young talented peers to create the Future of Workspace for Microsoft Company through an online platform.

Other Activities

AI Hackathon Winner @ Acquia
Took part in AI Hackathon at the organization. Worked as a team of 3 people to pitch and develop AIOps for Kubernetes. We won the Hackathon for India Category.

AIESEC @ University of Nottingham Ningbo
Travelled to Shanghai and nearby villages to conduct social involvement workshops. Interacted with local students and conducted various activities.

Robotics Society @ University of Nottingham Ningbo
Volunteered at student's society to conduct robotics workshops using arduino and prepared materials for demonstration.

Other Individual Projects (Hobby/Academic)

Exploring Quant (Python, IEX, QuantConnect)
Used IEX to gather financial briefs on my watchlist every day into spreadsheet and used QuantConnect to performed backtesting of trading strategies.

Pulse Service (Golang, Python, Fluent-bit, Redis streams, Postgres)
An easy to plug into your production service log aggregator. It aggregates user login/logout events via api and puts them to postgres for later analyses.

AIOps for Kubernetes (K8sGPT, Trivy, AWS)
An Leveraged K8sGPT (CNCF open-source project) to provide useful insights from container logs and k8s events using OPENAI LLM. Created a k8s watcher script using golang to trigger vulnerability reports periodically and whenever new version application pods are deployed.

Final Year Project
Built an AI Vision algorithms for autonomous vehicles on CPU+GPU and FPGA. Made use of Xilinx Alveo U200 FPGA on a cloud- based platform called Nimbix. Demoed using popular CNN algorithms namely Darknet, LeNet and ResNet.

Check my github for other personal projects I did

Other Information

Interests   Chess, US Stocks, Crypto, Mystical Wands and owns a cat.
Languages   Fluent in English and Tamil. Reading knowledge in French
Travels   China, Hong Kong, Macao, Thailand, Malaysia, Singapore
Online Certifications:
- Certified Kubernetes Application Developer | In-progress
- Terraform on AWS EKS kubernetes IaC SRE | In-progress
- Architecting Smart IoT Devices | Coursera ID: ZR3WRZTABM9X
- Artificial Intelligence A-Z: Learn How to Build An AI | Udemy ID: UC-T24EA6G9
- Autonomous Cars: Deep Learning and Computer Vision in Python | Udemy ID: UC-K4AIND1I
- Algorithm Specialization By Stanford | Coursera | Audited

Current Location   London, Ontario, Canada

Other Info   I am a grad student at Western University Ontario with study permit visa and Social Insurance Number (SIN) and will be able to work full-time from Fall 2025.