Anshuman **Banka**

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Skills __

Go • Typescript • Java • C++ • Python • Node.js • Express • Spring Boot • React • Docker • Kubernetes • PostgreSQL • MongoDB

Experience _____

DNAstack 📿

SOFTWARE ENGINEERING INTERN, BACKEND

• Joining COVID Cloud 🗹 team and building infrastructure for securely storing and sharing genomic sequencing data

Scena 360 📿

CO-FOUNDER

- Co-founded Scena 360, a web-based extended reality platform for realistic remote meetups and conversations
- Architected a WebRTC signalling websocket server using Redis and Go deployed on Google Kubernetes Engine
- Implemented session management and allowed horizontal scaling of websocket servers using Redis
- Designed media streaming Node.js server written in Typescript for supporting large-scale media broadcasting
- Built web application that supports encrypted 3D audio communication using TypeScript, React, WebRTC and Aframe

Carrot Inc.

SOFTWARE ENGINEERING INTERN, BACKEND

- Secured \$10MM+ revenue by spearheading development on health provider integrations enabling users to claim insurance benefits on **Pivot**
- Architected a HIPAA compliant ingestion engine for processing user insurance data using Typescript and PostgreSQL
- Developed an automated file-transfer service integrating remote SFTP servers with AWS S3, supporting OpenPGP encryption using rotated keys and IP allowlisting
- Built Node.js REST APIs using Express and PostgreSQL, used by internal customer service tool supporting 1M+ users
- Reduced customer service response times by >50% by aggregating errors in **SumoLogic** and sending reports in real-time

HiRide (Acquired By Facedrive)

ENGINEERING LEAD

- Supported vital KPIs and product features for HiRide leading to acquisition by FaceDrive for \$3.5MM 🕑
- Developed API backend in Go for a trivia game app with 1M+ downloads where users can compete in real-time
- Reduced leaderboard fetch time by 6X with Go microservice leveraging skip-list based sorted sets in Redis
- Led overhaul for a React Native rideshare-carpool app, resulting in more than a 200% increase in user retention

LCBO Next 📿

SOFTWARE ENGINEERING INTERN, MOBILE

- Built API backend for a cocktails mixology application promoting LCBO products using Node.js and Express
- Improved product search by optimizing **Elasticsearch** index and queries for relevance by using field-based scoring
- Developed **iOS** mobile application in **Swift** leveraging best practices like **MVVM-Coordinator** design pattern
- Built real-time object detection labelling for identifying ingredients using Apple CoreML & Vision APIs

HiRide 📿

BACKEND DEVELOPER

- Architected API backend for a rideshare platform using Node.js, Express and MongoDB deployed on AWS ECS
- Reduced build time by 4X using multi-stage builds and build caching on AWS Codebuild for Docker images
- Improved security monitoring using IP-allowlisting, rate-limiting, and custom logger for redacting PII

Education

University of Waterloo

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING (HONOURS)

Waterloo, ON Sep. 2017 - Apr. 2022 (Expected)

Kitchener, ON

Waterloo, ON

Sep. 2018 - Apr. 2019

Jan. 2019 - Apr. 2019

Redwood City, CA

Sep. 2019 - Dec. 2019

Toronto, ON

Waterloo, ON

May 2020 - Present

Jan. 2021 - Apr. 2021

Waterloo, ON

May 2019 - August 2020