

NIKHIL AGGARWAL

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Senior in Computer Science. Proficient in Golang, Python, Java, Javascript, backend development.

EDUCATION

Northwestern University — Evanston, IL

Senior

McCormick School of Engineering

B.S. in Computer Science, 2023

- Relevant Courses in College:
 - Object Oriented Design, Discrete Structures, Algorithms,
 - Introduction to Linux, Intro to AWS, Introduction to Database systems,
 - Game Design with Unity, Intro to AI, Intro to Networking,
 - Distributed Systems in Go, Agile software development

SKILLS

- **Languages:** Golang, Python, Java, Javascript, C/C++ (basic), SQL (PostgreSQL), x86 Assembly
- **Software/Libraries Used:** Flask (python), React (Javascript), CVAT (ML annotation tool), Postman, Material UI, YoloV5/Darknet, AWS S3 buckets, boto3, Robo3T for MongoDB, Gin, AWS RDS, GORM, jwt-go, Stripe

PROJECTS

- Created E-Commerce backend server from scratch using Golang
 - Built backend api with endpoints to query/create/update database using Gin HTTP web framework, GORM Object Relational Mapper and Amazon RDS
 - Used Json Web Tokens (JWT) for Single Sign On user authentication and authorization
 - Cart functionality using session management, checkout functionality using Stripe API
 - Tested using Postman
- I70-Things web application using React (Typescript) and Firebase and Airtable
 - A community-driven map application that allows users to view and contribute any traffic, weather, and construction data along route I-70
 - Used Airtable as cloud database alternative over locally hosted database
 - Pulled and displayed additional route data from Traveler Information Data Feed (CDOT) API
 - Used Mapbox API for basic map functionality including displaying traffic data and navigation
- Used InfluxDB for infrastructure monitoring
 - Built InfluxDB on CentOS VM and set up monitoring of LAN network and servers using Telegraf.
 - Installed and configured SNMP plugin for Telegraf

EXPERIENCE

Cisco (San Jose, CA) — *Software Engineering Intern*

June 2022 - Sep 2022

Cisco Intersight is a cloud operations platform that includes the deployment, monitoring, and management of the physical, virtual, and Kubernetes infrastructure.

- Working to improve Observability on the Intersight cloud monitoring platform for hyperflex clusters and UCS devices
- Designing the API service to query, correlate and return historical health metrics and relevant log data back to the end user within a specified time interval

Dori.AI (Sunnyvale, CA) — *Software Developer Intern*

June 2021 - Sep 2021

Dori AI is a full-stack AI platform to build and deploy enterprise computer vision applications.

- Created a Python based Flask server with API endpoints that loads files from S3 and runs an inference model on the selected image/video data
- Developed a React based computer vision web-application and integrated with the Flask server to display annotated image/video media using the YoloV5 inference model
- Annotated image/video datasets using CVAT, trained and benchmarked Object Detection models, evaluated accuracy scores and performed human-in-the-loop analysis to poor performing inference results