Nicholaus Suprapto

🏠 Waterloo, ON, CA 📫 nsuprapt@uwaterloo.ca ☎ (437) 986-7810 🔘 🔗 👨‍💻

Education

University of Waterloo   2020–2025
Candidate for Bachelor of Computer Science, Data Science Major
Relevant Coursework: Data Structures, Database Management, Algorithms, Operating Systems, Data Analysis

Skills

Programming Python, C++, C, NodeJS, Java, Golang, Bash, SQL, R
Tech Stack: AWS, Git, Docker, Pandas, Vue, Svelte, Jest, Django, PostgreSQL, MySQL, Firebase

Experience

State Street Corporation   **Toronto, ON**
Cloud Engineer Intern - Infrastructure Team   Jan 2023 - April 2023
  – Developed a monitoring dashboard in OpenSearch to monitor indices transitions across all clusters
  – Designed and implemented a pipeline for AWS Transit Gateway logs from S3 Storage to OpenSearch
  – Separated existing CloudWatch logs pipeline into different streams to reduce data flow
  – Improved the efficiency of the pipelines and reduced average processing time by 10%
  – Implemented AWS SQS to manage the flow of data in the pipelines to prevent throttling

FarmLink Marketing Solutions   **Winnipeg, MB – Remote**
Software Developer Intern - Fullstack Development Team   May 2022 - Aug 2022
  – Developed user interfaces using Vuetify in client-facing web application while practicing pair programming
  – Effectively refactored front-end components into generic components to reduce code complexity
  – Configured Vite and front-end code splitting that reduces load times by 26% and reduces bundle size by 72%
  – Optimized Django ORM queries of 3 main features to reduce API response times to a standardized response time

Paramount Commerce   **Toronto, ON – Remote**
Merchant Integrations Analyst Intern - Merchant Success Team   Sept 2021 - Dec 2021
  – Certified merchant integrations with the organization's payment services to meet compliance requirements
  – Utilized SQL queries to gather transaction data and extract information for merchant integrations
  – Assisted the company-wide Salesforce migration from Jira and created new Reports and Dashboards in Salesforce

Projects

Recipe Recommendation App 🔘
  – Built a functional web application that utilizes Svelte to provide recipe recommendation based on user's ingredients
  – Created a backend API using Golang to interact with PostgreSQL database, ensuring efficient data management

Spotify Data Visualization 🔘
  – Designed rich data visualization to model personal Spotify streaming habits with Matplotlib and Seaborn
  – Collected historical data and audio analysis data from Spotify API and worked on data cleaning and ensured data consistency using Pandas and Numpy

Binary Image Classifier 🔘
  – Built binary image classification model based on EfficientNetB3 to classify images into two distinct groups during week-long hackathon event, CxC Summit hosted by UW CSC and UW DSC
  – Increased dataset by data augmentation and fine-tuned the model with manual tuning to reach 93% accuracy

WLP4 Compiler 🔘
  – Built a compiler for WLP4, a strict subset of the C++ language, that produces ARM code of the given file with some optimization such as constant folding.
  – Implemented Simplified Maximal Munch scanning algorithm and Bottom Up parsing algorithm