Nicholaus Suprapto

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Education

University of Waterloo 2020–2025
Candidate for Bachelor of Computer Science, Data Science Major - 3.94 GPA
Relevant Coursework: Object-Oriented Programming, Data Structures and Data Management, Data Analysis

Skills

Languages: C++, C, Python, Javascript, Java, SQL, R, HTML/CSS
Tech Stack: Git, Docker, Pandas, TensorFlow, Vue, Jest, Django, PostgreSQL, MySQL, Firebase

Experience

FarmLink Marketing Solutions **Winnipeg, MB–Remote**
Software Developer Intern 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%
- Improved front-end test coverage to 80% by creating unit tests using Jest
- Optimized Django ORM queries of 3 main features to reduce API response times to a standardized response time
- Integrated Github Actions and Microsoft Teams to provide automatic updates of deployments

Paramount Commerce **Toronto, ON–Remote**
Merchant Integrations Analyst Intern Sept 2021 - Dec 2021

- Certified merchant integrations in the staging environment to meet compliance requirements
- Utilized SQL queries to gather transaction data and extract information for merchant integrations
- Documented request parameter constraints and errors for all internal products to save client time
- Researched and recommended mobile emulator tools to simplify the current automated and live testing practices
- Assisted the company-wide Salesforce migration from Jira and created new Reports and Dashboards in Salesforce

Projects

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

Achievements

CxC Summit ML Edition - Aipaca Challenge 1st Place 2022
CxC Summit ML Edition - Watonomous Challenge 1st Place 2022
Oracle Certified Associate, Java SE 8 Programmer 2021
University of Waterloo Merit Scholarship 2021