



Ron Dumalagan

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Education

Stevens Institute of Technology
Bachelor of Science in Computer Science

Hoboken, NJ
August 2020 - May 2024

Work Experience

Deloitte
Software Engineer

New York, NY
June 2024 – Present

- Led the frontend UI development on an application for a generative AI R&D team using React, Material UI, Node.js, and Tailwind CSS
- Ran performance benchmark evaluations on large language models to detect inaccuracies, hallucinations, and factual inconsistencies in AI-generated responses
- Deployed full-stack applications built with React, Node, and Flask through VM instances on Google Compute Engine
- Designed, built, and tested middleware integration APIs for a large-scale grants management system using Java, JavaScript, and Postman
- Presented technical demonstrations of completed Agile sprint objectives to key client stakeholders

Deloitte
Software Engineering Intern

Arlington, VA
June 2023 – August 2023

- Collaborated with software and data engineering teams on an AWS-based application that detects activities suggesting fraud, waste, and abuse
- Utilized PySpark and SQL to develop and implement aggregate functions and nested subqueries on tables in the database, enhancing the application's data processing efficiency and reducing computational and processing times by 700%
- Performed QA testing and data quality checks using SQL on over 500,000 entries, to check for null/duplicate/incorrect values in a PostgreSQL database
- Designed an entity-relationship diagram using Tableau and Toad Data Modeler to map out all tables and views used in the database

Federal Reserve Bank of New York
Summer Analyst

New York, NY
June 2022 – August 2022

- Developed 4 efficiency metric web applications for the Enterprise Architecture team using JavaScript and several front-end libraries and frameworks such as Chart.js and Bootstrap
- Assisted the VP of Enterprise Architecture and Director of Solution Architecture with the development of advanced search tools and duration calculators
- Implemented back-end REST API functions with Node.js to optimally display thousands of records with pagination
- Delivered and demonstrated application functionalities to product owners and department heads for Transformation Office initiatives, reducing monthly computation times by 1-2 hours

Projects

Jasmin
Lead Software Engineer

Hoboken, NJ
September 2023 – May 2024

- Led a team of software engineers in the development of a full-stack web application for virtual therapy using MongoDB, Express, React, Node, and Firebase.
- Integrated generative AI into the website as a virtual chatbot assistant using Google's Gemini and prompt engineering
- Designed the front-end and back-end for a real-time chat application that utilizes Socket.IO
- Created front-end UI components and directed UI/UX design for the web application using Material UI, CSS, and Figma

TRVL
Software Engineer

Hoboken, NJ
January 2023 - May 2023

- Developed a full-stack web application to help users plan their travel itineraries using MongoDB, Express, React, and Node
- Built the frontend and backend for the sign-up, log-in, and user profile pages, and tested forms on the pages for validation errors and XSS attack vulnerabilities
- Utilized and maintained a Kanban board in order to track user stories and product backlog

Skills

Python, JavaScript, Bootstrap, MongoDB, Express.js, React, Node.js, Firebase, Tableau, PySpark, PyCharm, DBeaver, Handlebars, HTML, CSS, Figma, Java, C++, OCaml, Bash, SQL, Ubuntu, Linux, Git, Visual Studio Code, Eclipse