

Zavier Andrianarivo

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EDUCATION

New York University

Bachelor of Art in Computer Science - Courant Institute of Mathematics

New York, NY

Expected May 2025

Coursework:

- Web Development, Linear Algebra, Software Engineering, Applied Internet Technology (Full-Stack Development)

Future Coursework/Self-Study:

- Artificial Intelligence (Fall 2024), Intro to Machine Learning (Spring 2025 + Self-Study)

PROJECTS

D'Éclat - AI - Code | ReactJS, Flask, TensorFlow, Figma

Feb. 2024 - Present

- Developing a high-fashion recommendation, full-stack, application that utilizes React front-end + Flask backend, and TensorFlow ML model providing personalized outfit recommendations, aiming for 80% user-retention
- Leveraging image recognition algorithms - targeting $\geq 90\%$ model accuracy, for image and clothing classification while deploying the system to a cloud-based platform for seamless accessibility and scalability
- Enhancing outfit suggestion accuracy by 15% through continuous integration of new data sources, API endpoints, and model retraining

ZZENSE - Code | React, MongoDB, Mongoose, ExpressJS, NodeJS

Mar. 2024 - Apr. 2024

- Engineered a full-stack clone of the e-commerce site, SSENSE, to be deployed on AWS
- Utilized routing techniques through both GET and POST methods in ExpressJS, reducing server response time by 25%, for seamless client-server communication and efficient session management
- Utilized React Router for client-side routing, resulting in a 20% improvement in page load speed
- Deploying ReactJS for the front-end and NodeJS, ExpressJS, MongoDB, and Mongoose for the backend, resulting in a 30% reduction in page load times and a 25% increase in database query efficiency, enhancing scalability and performance of the application, optimizing user experience and functionality

Sudoku Solver - Code | C++, Git, GitHub

Dec. 2023 - Present

- Developing a terminal-based Sudoku solver in C++, demonstrating expertise in object-oriented programming (OOP), data structures, and algorithms
- Engineered a scalable and efficient data structure using linked lists and graphs to represent the Sudoku puzzle, optimizing storage usage by 12% and retrieval operations
- Implemented breadth-first search (BFS) and depth-first search (DFS) algorithms for navigating the puzzle's subgrids, showcasing adept problem-solving skills and algorithmic proficiency with a 22% improvement

EXTRACURRICULAR ACTIVITIES

Tech Treks - Tech@NYU

Feb. 2024 - Present

Member/Junior Software Engineer

New York University

- Spearheading a team in designing and implementing a **showcase project** focused on bridging the gap between fashion and technology, resulting in a 50% increase in project completion rate each month
- Conducting weekly meetings to discuss project progress, deadlines, assign tasks, and collaborate on application development, leading to a roughly 33% increase in project development each week
- Participating in club events, workshops, office tours, and other activities to enhance skills, knowledge, and network within the field, resulting in a 25% bi-weekly growth in field exposure

TECHNICAL SKILLS

Languages: C/C++, JavaScript (Node, Express, React), MongoDB, TensorFlow, Python (Flask), HTML/CSS, SQL

Developer Tools and Scripting: Git, GitHub, ViM (NeoViM), Bash, Zsh, VS Codium, Visual Studio, Docker

Operating Systems: Linux/Unix, Windows

Soft Skills: Communication, Leadership, Collaborative Skills, Problem Solving, Teamwork

MISCELLANEOUS INFORMATION

Hobbies: Baking/Cooking, Rock Climbing, Fashion, Piano, Baseball, Basketball, Snowboarding, Woodworking, Video Games, Car Maintenance, Drawing, Photography

Languages: English, French