Vinayak Maharaj

+1-(647) 278-2410 | @ vinayakcpa@gmail.com | in LinkedIn | GitHub | Portfolio | Toronto, Canada

EDUCATION

University of Toronto — Toronto, Canada
B.Sc. in Computer Science and Statistics — *Sep 2021 – December 2024 (Expected)*

- **Relevant coursework:** Object-Oriented Programming, Probability and Statistics, Software Design, Data Structures and Algorithms, Software Tools and Systems Programming, Software Engineering, Linear Algebra, Machine Learning

WORK EXPERIENCE

Intelligent Adaptive Interventions Lab — Toronto, Canada
Software Engineer — *September 2023 – December 2023*

- Created 3 data visualization React components using Chart.js for the analysis page, reducing data analysis speeds by 60%.
- Decreased page load times by 120% by utilizing the advanced features of Next.js 13 to deliver a seamless user experience.
- Utilized Docker for containerization, ensuring scalable and portable deployment across various platforms.

Amnevar Ltd. — St. Augustine, Trinidad
Software Engineer — *May 2023 – August 2023*

- Deployed a Finance Dashboard App on Vercel using TypeScript and advanced Linear Regression Modeling, with Regression.js, resulting in precise financial data analysis and predictive models, increasing analysis speeds by over 40%.
- Implemented MaterialUI and Chart.js to create a responsive UI with graphs and tables for reliable data visualization.
- Implemented Redux Toolkit Query, leading to a 20% reduction in API call times and improved app responsiveness.
- Incorporated Lucidchart for data modelling, enhancing the backend's architecture and scalability to ensure a robust foundation for future growth and development.
- Used Regression.js for precise financial projections and predictive models, enhancing decision-making for the company.

PROJECTS

Evently | *GitHub*

- Developed a full-stack events platform enabling global event management and seamless ticket purchases through Stripe.
- Utilized a modern stack including Next.js 14, TypeScript, TailwindCSS, and integrated Zod for enhanced data validation.
- Implemented secure user management through Clerk, ensuring secure and efficient authentication

Car Hub | *GitHub*

- Developed a cutting-edge car rental website using TypeScript, Next.js and Tailwind CSS, ensuring a modern and responsive user interface that aligns with the latest industry standards.
- Demonstrated a strategic approach to design by creating custom filter, combobox, and modal elements with a modular design, emphasizing scalability and future expandability.

Promptopia | *GitHub*

- Developed a dynamic post sharing website using JavaScript with Next.js 13 and Tailwind CSS, offering a seamless user interface and full CRUD functionality for effortless prompt management.
- Deployed a secure Google Auth login for seamless data management, ensuring user-friendly access and information security
- Employed MongoDB as the primary database, ensuring data persistence and seamless access to shared prompts, user IDs, and emails, enhancing the platform's reliability and scalability.

UofT Timetable Manager | *GitHub*

- Built a Java app for personalized course timetables and accessing UofT's course info through their API.
- Improved code performance by 40% through extensive unit testing, achieving over 50% code coverage and resolving critical errors by identifying and eliminating redundant code.

COVID-19 Impact Analysis | *GitHub*

- Analyzed CSV data with Pandas quantifying employment-mental health correlations amid COVID-19.
- Used Matplotlib and Plotly for effective data visualizations and linear regression models to convey key findings.

SKILLS

Programming: Python (Pandas, NumPy, Tensorflow, Scikitlearn), Javascript/Typescript, Java, HTML, CSS C, R, Go, SQL
Frameworks: React.js, Next.js 13, Express.js, Node.js, Vue.js, TailwindCSS, MaterialUI, Bootstrap
Technologies: Git, Docker, GraphQL, PostgreSQL, MongoDB, Vercel, Linux, Shell (Bash)

CERTIFICATES

Machine Learning Specialization (Stanford University & DeepLearning.Ai) — *January 2024*