Joshua Bastien

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Technical Skills

Languages: JavaScript, C#, Python, Java, SQL, HTML, CSS, XAML
Frameworks & Libraries: .NET, React, Next.js, Express.js, Tailwind CSS
Developer Tools: Git, GitHub, DBeaver, PostgreSQL, Node.js, Figma

Experience

Full-Stack Developer   June 2024 – Aug. 2024
Elysium Software   *Toronto, ON · Remote*
- Added new user type to web application by designing PostgreSQL schema updates, including tables, join tables, and CRUD operations.
- Built React-based front-end pages for the new user type, including analytical dashboards and ad hoc queries, improving user functionality.
- Integrated Amazon AWS Cognito for secure user authentication and role-based access control.
- Designed and implemented RESTful APIs to enable smooth communication between the front-end and back-end.

Junior Software Developer   May 2023 – Dec. 2023
Voltaric Inc.   *Toronto, ON · Remote*
- Engineered innovative Rhino 3D automation for CNC manufacturing software, recognized as the "solution to the housing crisis" by Ontario Premier Doug Ford.
- Developed Software that allows engineers to create/simulate operation sequences directly in the CAD viewport, and generate machine code with custom Grasshopper scripts.
- Engineered user-friendly software applications utilizing .NET, C#, Windows Presentation Foundation (WPF), incorporating XAML for UI design and Model-View-ViewModel (MVVM) architecture.
- Collaborated in an Agile environment to integrate UI designs with backend logic, achieving project milestones and ensuring client satisfaction.

Software Developer Intern   Mar. 2022 – Aug. 2022
Voltaric Inc.   *Toronto, ON · Remote*
- Developed a comprehensive user onboarding form for a client's web application using React, enhancing user experience and streamlining data collection.
- Leveraged React hooks to manage state and lifecycle methods, ensuring a dynamic and interactive interface, with a focus on debugging to maintain code quality and performance.
- Collaborated closely with the design team to implement a fully responsive and intuitive UI, utilizing modern CSS techniques and ensured alignment with the client's branding guidelines.

Projects

AI Agency (Paid Freelance Developer) | *Python, Langchain, Docker, RAG, Gradio, Ollama*   July 2024
- Developed and Optimized an AI agency platform for a private client, utilizing local and remote machine learning models, enabling the client to deploy AI-powered services with or without reliance on external APIs.
- Engineered a customizable AI system specifically designed for engineering tasks, allowing the client to train the AI with domain-specific data for enhanced analytical and problem-solving capabilities.

AI Album Generator | *Python, OpenAI API, Suno API, YouTube Data API*   Nov. 2024
- Built an AI-driven pipeline using Suno API, OpenAI, YouTube Data API, and Runwary to generate songs, dynamic album covers, and upload complete music albums.
- Enhanced video outputs with RunwayML visuals, batch automation, and generative variation, with results showcased on a Youtube Channel.

NoiseTracker | *JavaScript, Express.js, HTML, Web Audio API, Google Maps API*   June 2023
- Led the development of an innovative noise pollution monitoring platform using HTML, CSS, JavaScript, Express.js, the Web Audio API, and the Google Maps API. Empowered users with a user-friendly method for recording, analyzing, and visualizing noise levels

Education

University of Toronto   Toronto, ON
Bachelor of Science in Statistics
Honors & Awards: *Dean's List, The Vito Ierullo and First Classes of UTSC Entrance Award*