GEORGE BARAKAT

Backend Software Engineer

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LinkedIn

SUMMARY

Backend Software Engineer with hands-on experience building REST APIs, server-side integrations, automated workflows, and cloud-ready services across enterprise environments. Skilled in Java, Python, and SQL, with experience in Docker, Kubernetes, Git, AWS, CI/CD, and content/workflow management systems.
Proven ability to design reliable backend components, improve engineering efficiency, develop API-driven integrations, and collaborate with cross-functional teams in Agile environments. Passionate about building clean, scalable, and fault-tolerant systems.

EDUCATION & ACCOMPLISHMENTS

Brock University

Bachelor's Degree in Computer Science
2018 – 2023

Minor in Business
2018 – 2023

2nd Place Winner - CuHacking Hackathon

Developed CareConnect, a 36-hour hackathon projectleveraging Gemini APIs, voice interaction, and sentiment analysis to create an AI system designed to support orphans with empathetic, emotion-aware responses rather than purely logic-driven interactions.

FRAME WORKS & TOOLS

Java, Python, Golang, SQL, JS
React, Node, and Express JS
JUnit, Google Cloud APIs

Docker, Kubernetes, Git
Firebase, AWS, PostgreSQL
OpenAI APIs, Apache Kafka

PROJECTS

- AI Customer Care Chatbot
  - Developed an AI Customer Care chatbot using OpenAI tokens for the Niagara On The Lake mueseum. Answering FAQs about exhibitsand museum hours. Offering directions and interactive map integration. Fed it a dataset of historical information and FAQs from the museum's archives. Fine-tuned OpenAI's modelusing this data to ensure accurate and context-aware responses.

- AI Driven Chess Game
  - Implemented a Chessgame using Pygame using the MiniMax Algorithm where AI uses a decision tree to evaluate all possible moves. The algorithm evaluates positions based on a heuristic evaluation function to decide the best move.

PROFESSIONAL EXPERIENCE

Jr Application Developer

FirstOntario Credit Union - Stoney Creek | April, 2025 - Present

- Designed and implemented automated workflows using Robotic Process Automation (RPA) tools to streamline business operations and improve efficiency.
- Developed and optimized document management solutions with Laserfiche, creating and customizing workflows for content capture, storage, and retrieval.
- Configured and maintained applications within the Temenos banking platform, focusing on system integration and customization to meet specific business requirements.
- Unit testing, deployment, and ongoing support of developed applications and automated processes.

Software Engineer

KIWI CODE - Oakville | Dec, 2023 - April, 2025

- Designed and developed custom websites for small businesses using React.js for front-end and Node.js for server-side functionalities.
- Utilized expertise in React.js to build responsive and engaging user interfaces, enhancing overall user experience.
- Leveraged Node.js to develop robust server-side applications, facilitating seamless data communication and business logic.
- Implemented RESTful APIs with Node.js to ensure smooth data exchange between the front end and backend systems.
- Employed Firebase as a Backend-as-a-Service (BaaS) solution for database management, user authentication, and real-time data synchronization.

Inten Software Engineer

TD Bank - Toronto | April, 2022 - July 2022

- Assisted in developing and maintaining featuresof the TD mobile bankingapp using Java.
- Followed secure coding practices like input validation, basic encryption standards, and error handling to ensure data protection and compliance with company policies.
- Wrote and executedunit tests (u-tests) using JUnit, achieving 80% code coverageon the modules I worked on.
- Supported end-to-end testingefforts using Selenium, validating user workflows across different devices and scenarios.
- Identified and documented bugs during testing,working closely with the development team to resolve issues before deployment.