Will Katabian

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SUMMARY

Software Engineer with experience in developing robust systems using Python and AWS technologies. Successfully built backend systems with AWS Lambda, API Gateway, and DynamoDB, enhancing reliability and scalability. Strong skills in object-oriented design and algorithm development, aiming to leverage expertise to optimize backend processes.

EDUCATION

The College of William & Mary   **Sep 2021 - May 2025**
BS, Computer Science

CERTIFICATIONS

- **AWS Certified Cloud Practitioner**: Expires: Jun 2028

SKILLS

- **Tools**: C, C++, Java, Python, JavaScript, TypeScript, React, Node.js, PyTorch, SQL, AWS, Docker, Linux
- **Concepts**: Retrieval Augmented Generation, Object-Oriented Design, Complexity Analysis, Algorithm Design, DevOps, Agile

EXPERIENCE

RMGS, Inc.   **May 2024 - Aug 2024**
Web Developer   *Virginia Beach, VA*

- Rebuilt the company website, implementing a strategic structure and advanced CSS styling, which enhanced user engagement and SEO performance
- Optimized the company's web presence to maximize security and maintain ISO compliance through an internal audit.

MarginEdge   **May 2022 - Aug 2022**
Software Engineer   *Arlington, VA*

- Created an internal mobile application, Find [ME] Food, capable of displaying company clientele on an interactive map, enhancing user engagement and accessibility
- Designed front-end UI/UX using React and JavaScript, integrated with back-end database systems and security measures, resulting in a seamless and secure user experience
- Built back-end systems using Python and cloud infrastructure with AWS Lambda, API Gateway, DynamoDB, and Cognito, improving system reliability and scalability

PROJECTS

RAG Document Assistant   **Jun 2025 - Jul 2025**

- Built full-stack RAG application using React/TypeScript frontend and Node.js backend, implementing hybrid vector + keyword search with OpenSearch and Claude AI integration for intelligent document Q&A
- Engineered multi-modal document processing pipeline supporting PDF, Word, and web scraping with automatic text extraction, chunking, and vector embedding generation using Xenova Transformers

React Web Portfolio   **May 2025 - Jun 2025**

- Developed a responsive React.js portfolio website featuring a retro Mac OS aesthetic with dynamic project showcases and interactive UI components.
- Implemented modern web technologies including Tailwind CSS for styling, component-based architecture, and optimized image handling for seamless user experience.

Micro GPT   **Mar 2025 - Apr 2025**

- Developed a generative AI model using the transformer architecture capable of chat-style output.
- The model comes paired with a user-friendly interface for use outside the command line.
- Tools used include PyTorch, argparse, pickle, HuggingFace, and other transformer/neural network practices such as batches, blocks, multi-head attention, and data masking.

File Byte Editor   **Oct 2024 - Nov 2024**

- Built a basic byte manipulation engine in C, capable of basic file editing through the command-line interface.
- This engine is able to print a usage statement, rotate, expand, and contract a file by X bytes, and keep specific byte segments.