

Isaiah Duncan, PhD

Josephborough

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Summary

Driven and detail-oriented programmer with a PhD in Computer Science and a passion for developing innovative software solutions. Proficient in leveraging advanced technologies to optimize processes and enhance user experiences. A collaborative team player with a knack for problem-solving and a commitment to continuous learning in the ever-evolving tech landscape.

Experience

Software Engineer

Tech Innovations Ltd. — Josephborough, CA

January 2021 - Present

- Developed and maintained a **Web Application** that handles over 10,000 concurrent users, utilizing **PostgreSQL** for data storage and **Rust** for backend services.
- Collaborated with cross-functional teams to create an **API Gateway** that reduced response time by 30%, enhancing overall application performance.
- Implemented **Microservices** architecture, improving system scalability and maintainability.

Research Assistant

University of Josephborough — Josephborough, CA

September 2018 - December 2020

- Conducted research on **Machine Learning** algorithms, resulting in a publication at the International Conference on Data Science, which increased departmental visibility.
 - Built a **Machine Learning Pipeline** for analyzing large datasets, which improved the accuracy of predictive models by 25%.
 - Mentored undergraduate students in programming fundamentals, focusing on **C++** and **Django**.
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Skills

- **Django**: Beginner
 - **MongoDB**: Expert
 - **C++**: Beginner
 - **Rust**: Intermediate
 - **Git**: Expert
 - **Machine Learning**: Intermediate
 - **Microservices**: Intermediate
 - **PostgreSQL**: Advanced
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Projects

- **Mobile App**: Designed and developed a cross-platform mobile application that facilitates real-time communication for local businesses, achieving over 1,000 downloads within the first month of launch.
- **Machine Learning Pipeline**: Created an automated pipeline for image classification, reducing processing time by 40% and increasing model accuracy.
- **Web Application**: Engineered a full-stack web application for a local non-profit, which improved donation tracking and engagement by 50%.
- **API Gateway**: Developed an API Gateway that integrated multiple services, streamlining data access and improving client-side load times by 20%.

Education

Doctor of Philosophy in Computer Science

University of Josephborough — Josephborough, CA

Graduated: May 2021

- Dissertation: "Optimizing Machine Learning Algorithms for Predictive Analytics in Large Datasets"

Bachelor of Science in Computer Science

University of Josephborough — Josephborough, CA

Graduated: May 2017

Certifications

- **AWS Certified Solutions Architect**
 - **Docker Certified Associate**
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Additional Information

- Active contributor to open-source projects on GitHub, focusing on improving documentation and code quality.
- Enthusiastic about participating in hackathons and coding challenges to enhance programming skills and collaborate with peers.
- Committed to lifelong learning, currently pursuing advanced studies in cloud computing and distributed systems.