Jaden Thomas

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Skills Summary

Programming Languages: C, C++, C#, Java, Python, Rust, JavaScript, CSS, Dart, SQL, Go, Ruby.
Other Skills/Frameworks: ReactJS, Node.js, Next.js, Spring Boot, Linux, Cloud Infrastructure, Splunk, UNIX, DynamoDB
Soft Skills: Problem-Solving, Talent Development, Effective Communication, Leadership, Agile Methodologies

Work Experience

Wells Fargo, Charlotte, NC *June 2024 – August 2024*
Software Engineer Intern – Technology Department fintech

- **Saved $50,000 annually** by developing a full-stack Database Aggregator web application using C# and Blazor with responsive design and bank-grade security practices.
- **Reduced database query time by 50%,** saving 5–10 minutes per query, by optimizing back-end performance.
- **Enhanced team efficiency by 30%** by streamlining onboarding centralized access to commonly used databases.
- Achieved **100% code coverage** through test-driven development, improving software reliability.
- Migrated APIs to a CQRS model, separating commands and queries based on GETs and POSTs.
- Laid the groundwork for a transition to an **efficient data exchange** model, improving the flow of information.

Sandhills Global, Scottsdale, AZ *September 2023 – May 2024*
Software Development Intern

- **Enhanced operational efficiency by 20%** by contributing to web-based, data-driven applications using RESTful Services, .NET, SQL Server, and React.js.
- Collaborated within a dynamic team environment, employing **Agile methodologies** to develop real-world. software solutions. This includes enhancing operational efficiency and contributions to large public websites.

PharMini ASU Research Project, Tempe, AZ *September 2023 – Present*

- **Led a team six** in the development of "PharMini," a simulation strategy game designed to teach industrial engineering students about medical infrastructure and resource management
- **Achieved 100% on-time delivery** by effectively managing timelines and stakeholder communication.

Education And Certifications

ASU
BA, Computer Science | *GPA 3.4/4* *Expected graduation date – May 2025*
Microsoft Certified: Azure Cloud Fundamentals *July 2024*

Projects

PrepMate | C#, Blazor, DynamoDB, AWS Rekognize (Custom-Trained), ChatGPT API *September 2024*
2nd Place "Best Use of AWS": Sunhacks 2024 (24 hours)

- Developed an AI-powered recipe generation web app that allows users to input or take pictures of ingredients already owned and generate personalized recipes.
- Increased user engagement by 35% through implementing **interactive data visualization** features and calorie tracking with detailed macronutrient breakdowns.
- Trained a custom **AWS Rekognize AI model** to accurately identify ingredients from images, enhancing user experience
- Accelerated data processing speed by 50% by including parallel processing to handle a database of 10,000+ recipes.

IntelliNotes | Next.js, React, Google speech-to-text, Google Translate, ChatGPT API *October 2024*
3rd Place Educational Technology: Hack SoDa 2024 (24 hours)

- Developed real-time **lecture transcription and translation** tool that improved learning accessibility for **multilingual** classrooms by automating transcription, translation, summarization, and quiz generation using Google speech-to-text, Google translate, and ChatGPT.
- Enhanced student engagement by 40% (measured by quiz completion rates) using AI-driven multiple-choice questions, fill-in-the-blank exercises, and flashcard generation. Promoting **active learning and retention**.
- Streamlined **curriculum access** for international students, making lectures accessible in multiple languages.

SnackTrackr | C#, Mudblazor, SQLite, Cloud SQL *October 2024*

- Developed and deployed a web application on Google Cloud that tracks macros and calories by allowing users to input individual ingredients and scan barcodes of food items for automatic macro tracking.
- Achieved scalability for **100+ concurrent users** by leveraging Google Cloud and Cloud SQL for deployment.

PredictaParse | C++ *April 2024*

- Increased compilation efficiency by 40% by creating a predictive descent parser to recognize and compile a custom programming language into an intermediate representation.
- Gained practical experience in compiler construction and design patterns, furthered understanding of interpreters.

CIA Swarm Project – Capstone Project *September 2024 – Present*

- Led a team of six to develop an **autonomous rover system** utilizing Raspberry Pis, cameras, and Arduinos for mapping out the layout of an unknown maze using swarm intelligence techniques, deep learning, and TinyML