Ian Wood

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EDUCATION

Georgia Institute of Technology   Atlanta, GA | Aug 2021 - Dec 2024
BACHELOR OF SCIENCE, COMPUTER SCIENCE | HIGHEST HONORS | 4.0 GPA
Research Assistant: Data-Driven Product Design

WORK EXPERIENCE

TESLA | SOFTWARE ENGINEER   Austin, TX | March 2025 – Present

- Develop and deploy backend features every 2 weeks for an internal factory tool used by 50,000+ people that tracks equipment data and maintenance schedules following an Agile organizational structure.
- Build and maintain high-performance Go microservices using Docker and Kubernetes, with a focus on MySQL query optimization for data involving millions of maintenance orders across 6 global factories.
- Improve system reliability by identifying and resolving production issues through observability tools like Splunk, Grafana, and database profiling.
- Manage and troubleshoot Kafka infrastructure, including topic creation, certificate handling, and messaging issues.
- Designed and implemented a custom data pipeline to stream equipment data from MQTT topics to Kafka, enabling predictive maintenance by storing time-series data in ClickHouse for IoT-based analysis.
- Collaborate across teams to integrate backend services and ensure smooth communication between systems in a fast-paced production environment, working directly with factory stakeholders to determine requirements.

TESLA | SOFTWARE ENGINEER INTERN   Fremont, CA | May 2024 - Aug 2024

- Developed features for in-house equipment maintenance software using Golang, MySQL, and Angular.
- Created Grafana dashboards to display data analytics and predict equipment failure using equipment data retrieved from a Kafka data pipeline.
- Led design/implementation of API for creating forms and workflows that were used across the company by over 20,000 people.

FLIGHTBRIDGE | SOFTWARE ENGINEER INTERN   Atlanta, GA | May 2022 - Aug 2022

- Continuously developed an online booking and management platform for the private aviation industry.
- Developed a tool using ASP.NET and the Google Maps API to visualize hotel data for over 1000 customers.
- Utilized SQL and LINQ in C# to build a hotel recommendation engine that increased hotel search efficiency.

GRIFFIN SOLUTIONS GROUP | SOFTWARE ENGINEER INTERN   Alpharetta, GA | May 2021 - Aug 2021

- Followed an Agile development cycle to work on multiple software projects at a software solutions company.
- Used React to develop frontend features and worked with Node.js and PostgreSQL to develop API endpoints.

CERTIFICATIONS

MICROSOFT AZURE FUNDAMENTALS ⬀   AZ-900 | MAY 2025

PROJECTS

MAGNIDIA ⬀   NEXT.JS, TYPESCRIPT, POSTGRESQL
Led a 6-person development team as a project manager to develop a web app for creating/sharing events built using TypeScript, Next.js and Tailwind with authentication using NextAuth and Google Cloud. Also used a serverless API built using Next.js app routing that stores data with Prisma, PostgreSQL, and AWS.

SKILLS

Languages: Go, Python, TypeScript, C#, Java, SQL
Web Development: Next.js, React, Node.js, ASP.NET, Tailwind, HTML/CSS
Technology: Git, Docker, Kubernetes, Grafana, Jenkins, Azure, AWS, Kafka, Splunk, MySQL, PostgreSQL, ClickHouse