Eric Waters

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Versatile software engineer with experience in full-stack development, AI/ML integration, and scalable backend systems. Skilled in modern web frameworks, data processing, and cloud-native technologies. Passionate about building efficient, maintainable software that's clean, scalable, and built to last.

Experience

Intel Corporation   **Chandler, Arizona**
Software Application Development Engineer   **August 2023 – Present**

- Developed an AI-powered contract auditing tool that enabled enterprise legal teams to identify risks and inefficiencies, resulting in up to $30M in estimated cost savings.
- Built a modular web platform for Generative AI tools using Angular and Sanic, enabling rapid development of AI-powered apps with reusable components, unified UI, and robust API integrations.
- Designed a no-code AI app studio using React, Next.js, and Tailwind, empowering teams to create and deploy AI apps without using development resources.
- Engineered a scalable ML analytics API for manufacturing data using FastAPI, Docker, and Kubernetes, enabling seamless integration of advanced analytics into multiple applications.
- Independently administered an AI search platform for manufacturing data, enabling faster problem-solving. Created robust ETL pipelines using Pandas and SQL Server to ingest, normalize, and consolidate data across business units.

Dell Technologies   **Round Rock, Texas**
Graduate Software Engineering Intern   **June 2022 – August 2022**

- Implemented OAuth 2.0 SSO across several enterprise apps, unifying authentication and enhancing user experience.
- Integrated fine-grained authorization controls for several web apps and REST APIs using Spring Boot and Angular, strengthening security and compliance.

Undergraduate Software Engineering Intern   **May 2021 – August 2021**

- Built a custom Kanban board app with Spring and MySQL, improving agile collaboration for engineering teams.
- Designed an interactive Adobe XD prototype to streamline an onboarding process, earning 1st place in the Intern Hackathon.

Education

Arizona State University   **Tempe, Arizona**
Computer Science (Big Data Systems), M.S. *with Distinction*   **4.0 GPA | May 2023**
Computer Science, B.S. *Summa Cum Laude & Barrett, the Honors College*   **4.0 GPA | May 2022**

Skills

- **Programming Languages**: Typescript, JavaScript, Python, Java, C, C++, C#, SQL
- **Web Development**: React, Angular, Next.js, Spring, Laravel, FastAPI, Sanic, OAuth, D3.js, HTML, CSS
- **Data Technologies**: Pandas, NumPy, Matplotlib, Kafka, Spark, Hadoop, Neo4j, SQL Server, PostgreSQL, MySQL
- **ML/AI Tools**: TensorFlow, LangChain, Scikit-learn, Keras
- **DevOps & Cloud**: Docker, Kubernetes, GitHub Actions, Rancher, Harbor, Azure
- **Concepts**: Data Structures and Algorithms, Object-Oriented Programming, REST APIs, Large Language Models, Agile, Scrum

Projects

Automated Detection of Phishing Attacks using Machine Learning   **March 2023 – May 2023**

- Engineered a high-accuracy phishing URL detection system by evaluating 9 ML models with Scikit-learn and Pandas, achieving 98% accuracy using an ensemble of optimized classifiers and deep neural networks.
- Compared PCA, Kernel PCA, and autoencoders for dimensionality reduction to enhance model efficiency and performance.

Party on Wall Street   **August 2021 – May 2022**

- Founded and built an online couch-party video game in Unity/C# to teach entrepreneurship through interactive gameplay.
- Built mobile virtual controllers using JavaScript, HTML, and CSS to enable seamless multiplayer input from any device browser.

Watts ERP   **August 2021 – May 2022**

- Created a contractor management web app for Netpoint LLC using PHP, Laravel, and JavaScript to streamline field operations.
- Improved UI/UX design, digitized safety forms, and implemented an inventory pricing engine to automate cost tracking.

American Airlines In-Flight Transcriber   **October 2021**

- Built a real-time system to transcribe and display airline crew announcements using Node.js, Firebase, and AssemblyAI.
- Awarded 1st Place by American Airlines, Best Use of AssemblyAI, and featured in AssemblyAI's blog