

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 owned 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.
- Streamlined the onboarding process for an employee resource group, winning 1st place in the Dell 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
- **Concepts:** Data Structures and Algorithms, Object-Oriented Programming, REST APIs, Large Language Models, Agile, Scrum

Projects

Distributed PageRank Graph Processing Pipeline

May 2023

- Identified key pickup and drop-off locations from a taxi dataset by creating a PageRank data processing pipeline
- Processed the taxi data in real-time by creating a Kubernetes cluster of Kafka, Zookeeper, and Neo4j Docker containers

Automated Detection of Phishing Attacks using Machine Learning

March 2023 – May 2023

- Evaluated 9 machine learning techniques against a dataset of legitimate and phishing URLs using Scikit-learn and Pandas
- Assessed the performances of PCA, Kernel PCA, and autoencoder dimensionality reduction techniques
- Achieved 98% accuracy by training an ensemble classifier of optimized ML techniques and deep neural networks

Party on Wall Street

August 2021 – May 2022

- Founded and built a couch-party style online video game that teaches entrepreneurship using Unity and C#
- Created virtual controllers for the game that run on any mobile device browser using JavaScript, HTML, and CSS

American Airlines In-Flight Transcriber

October 2021

- Recorded, stored, and displayed airline crew announcements in real-time using Node, Firebase, and AssemblyAI
- Awarded 1st Place by American Airlines, Best Use of AssemblyAI, and featured in AssemblyAI's blog