

Jayce Bordelon

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Education

Washington University in St. Louis

Bachelor of Science in Computer Science

May 2025

St. Louis, Missouri

- **Relevant Coursework:** Data Structures and Algorithms (Java), Rapid Prototype Development and Creative Programming, Database Systems, Object Oriented Systems (C++), Computer Security, Parallel and Concurrent Programming, Programming Systems and Languages

Experience

Mastercard

August 2025 – Present

Software Engineer

St. Louis, Missouri

- Designed and led development of RESTful transaction logic enabling Apple and Android Tap to Provision card integrations.
- Contributed to PIN Validation modernization by designing event-driven transaction flows spanning multiple microservices.
- Designed an asynchronous request correlation pattern using Reactive Java Sinks, enabling non-blocking transaction tracking across aggregated services.
- Coordinated with international teams to manage global deployments and autoscaling for new services.

Mastercard

January 2024 – August 2024

Software Engineering Intern

St. Louis, Missouri

- Developed a reusable Spring Boot health check library, automating monitoring across multiple microservices.
- Built a BDD testing framework using Cucumber for automated integration testing within CI/CD pipelines.

Synopsys

May 2023 – August 2023

Software Engineering Intern

Sunnyvale, California

- Led architecture and deployment of a containerized application which enables non-technical users to manage Kubernetes clusters.
- Automated synchronization of over 20,000 LDAP instances with PostgreSQL via ruby on rails rake task migrations.

Washington University in St. Louis

July 2022 – May 2025

Teaching Assistant

St. Louis, Missouri

- Supported instruction for Introduction to Computer Science (Java), Object-Oriented Software (C++), and Rapid Prototype Development (Full-Stack Web).

Projects

OccupAI – Co-Founder and CTO | <https://occupai.us> | Computer Vision, Next.js, PostgreSQL, Docker Swarm

- Co-Founded startup as CTO, integrating computer vision with POS systems (Square, Toast, Clover) to deliver real-time revenue leak detection and AI-driven operational analytics.
- Architected a scalable full-stack application using Next.js and Docker Swarm, featuring real-time dashboards via WebSockets and Server-Sent Events.
- Developed three AI-powered MCP agents providing dynamic insights for venue performance, staffing, and inventory optimization.
- Won second place at STL Startup Week. Live Demo: <https://youtu.be/gaR.1Rwb5HY?si=WVnqZ8zPOW4AFIGj&t=2547>

Technical Skills

Languages: Java, Python, Typescript, Ruby, C++/C, HTML/CSS, PHP, Go

Frameworks: NextJS, Ruby on Rails, Spring Boot, ReactJS, FastAPI, NodeJS, Django

Databases: PostgreSQL, SQLite, MongoDB, Firebase

Dev Ops: Docker, Docker Swarm, Kubernetes, Linux, Caddy, SSH, CI/CD, Github Workflows

Concepts: Computer Vision, Machine Learning, Artificial Intelligence, Query Optimization, GRPC, Event Driven Architecture, Microservices, Cloud Orchestration, Test Automation, Object Oriented Programming, Functional Programming, AWS EC2, AWS Lambda, AWS RDS