

# Jayce Bordelon

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## Education

### Washington University in St. Louis

May 2025

*Bachelor of Science in Computer Science (GPA: 3.66 / 4.00)*

*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 Congruent 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 Add integrations.
- Streamlined microservice transactional flow by eliminating 2 redundant GraphQL calls, reducing PIN validation processing time by 30%.
- 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*

- Architected and deployed a containerized visualization application enabling non-technical users to manage Kubernetes clusters.
- Automated synchronization of over 20,000 LDAP instances, streamlining directory management.

### 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

### OccupyAI | [occupai.us](https://occupai.us) | Computer Vision, Edge Computing, 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.
- Deployed edge devices across three client locations, processing RTSP streams locally to ensure complete video privacy.

## 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