

Adam Boudraa

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Education

Cascadia College
University of Minnesota
Oregon State University

A.A. in Integrated Studies (DTA) - May 2024 | GPA: 3.7
Full Stack Web Development Bootcamp - Certificate: April 2024
B.S. in Computer Science - Expected: June 2026 | GPA: 3.75

Technical Skills

- **Languages:** Java, Python, JavaScript/TypeScript, C#, C
- **Frameworks/Tools:** React, .NET, EF Core, Node.js, SQL (SQL Server/MySQL), MongoDB, GraphQL, JWT, Git, Docker
- **DevOps & Cloud:** Azure Functions, Azure Pipelines, Azure Key Vault, Terraform, CI/CD
- **Practices:** Object-Oriented Design, Test-Driven Development, Code Reviews, Agile/Scrum

Experience

- **Software Engineer Intern** *Basys Processing* *May 2025 - Present*
 - Built and maintained production ASP.NET Core services, adding endpoints, business logic, and EF Core migrations for SQL-backed systems.
 - Developed a queue-triggered Azure Function that auto-voided errored transactions to prevent duplicate charges; added admin notifications to improve reliability.
 - Set up Azure Pipelines CI/CD, Terraform IaC, and secure Key Vault integrations for safe, consistent deployments.
 - Shipped reusable React components and collaborated with UX, QA, and backend engineers across a large shared codebase.
 - Improved code quality through code reviews and xUnit tests following TDD practices; participated in Agile/Scrum with a 12-engineer team.
 - Collaborated with sales and marketing interns to research and present a digital asset management solution to executives.
- **Electronics Department Rep.** *Target/Consumer Cellular* *September 2022 - Present*
 - Troubleshoot mobile devices, network issues, and account configurations, giving customers clear technical explanations.
 - Balanced customer support, inventory accuracy, and operational coordination.

Projects

- **JOS Kernel** - C, x86 Assembly, Operating Systems
 - Developed a Unix-like operating system kernel implementing boot processes, physical/virtual memory management with custom page tables and MMU configuration.
 - Implemented preemptive multitasking with multiprocessor support, round-robin scheduling, system call handling, and Unix-style fork() for process creation.
 - Built inter-process communication (IPC) mechanisms and hardware clock interrupt handling for process isolation and coordination.
- **Fit-Connect** - MERN, Apollo GraphQL, JWT Auth, Stripe
 - Team-built e-commerce app for fitness course discovery and purchase; implemented course reviews with full CRUD functionality and Stripe checkout.
 - Collaborated in a multi-person codebase using Git, pull requests, and iterative sprints.