

Alexis Binch

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Professional Summary

Software Engineer at entry level with experience in backend development, DevOps, and full-stack projects. Solves problems by starting from first principles—focusing on understanding problems deeply, analyzing how systems connect, and designing solutions that are efficient and easy to maintain. Built secure CI/CD pipelines and scalable backend layers, and improved grading systems through automation. Ready to apply a thoughtful, principled approach to help build reliable and maintainable software.

Skills

- **Proficient:** Code Analysis & Debugging, API Integration & Testing, Full-Stack Development, Vercel, Jira, Git, Next.js, Technical Documentation & Diagramming, Prompt Engineering, AI Integration, AI-Collaborative Coding
- **Emerging:** Python, Data Structures, React, JavaScript, Java, TypeScript, SQL
- **Soft Skills:** Effective Communicator, Self-Motivated, Curious, Problem Solver, Teachable

Education

Ensign College

Jan 2025 - Apr 2026

Bachelor of Science, Software Engineering

Salt Lake City, UT

- **Coursework:** Introduction to Programming, Data Structures, Object Oriented Programming, Web Development, Discrete Math, Technical Writing, Agile Project Management, Statistics, Full Stack Development

Extracurricular

Coding Club

Aug 2025 - Present

Presidential Assistant

- Planning local hackathons among students.
- Support the president in coordinating events, securing speakers, and managing logistics.

Professional Experience

Dev Ops Intern

Aug 2025 - Present

Thirdwave Innovations

Ogden, Utah

- Built and enhanced interactive dashboards by implementing data visualizations and developing backend abstraction layers in Python, creating a scalable foundation for future analytics and integrations.
- Designed and proposed a secure CI/CD pipeline leveraging modern Dev Ops practices (GitHub Actions, container registries, automated deployments), strengthening security, consistency, and maintainability across environments.

Student Software Engineer

Apr 2025 - Aug 2025

Ensign College

Salt Lake City

- Developed a Proof of Concept AI Autograder that integrates with Canvas LMS to retrieve text submissions, leverages OpenAI for grading against a rubric, and provides actionable feedback, complete with a user interface and OAuth authentication for secure login, resulting in improved grading efficiency
- Supported the Software Engineering Program Chair by contributing to a full-stack autograding program for beginner student code, utilizing JavaScript, TypeScript, and Python, which enhanced the accuracy and efficiency of student assessments
- Managed and debugged API integrations with Canvas API, GitHub API, and GitHub Classroom to ensure seamless functionality and accurate grading processes, resulting in improved system reliability and user satisfaction
- Developed and maintained both frontend and backend components of the autograding system, enhancing program efficiency and user experience, which led to faster grading times and improved user feedback
- Provided technical assistance to students, guided them through assignments, and troubleshoot coding issues to foster skill development, resulting in increased student confidence and improved coding skills
- Developed and implemented a scalable architecture for AI autograding student code that provides automatic feedback.

Help Desk Technician

Jan 2024 - Apr 2025

Ensign College

Salt Lake City, UT

- Provided QA support and troubleshooting during a major WiFi migration, minimizing disruptions.
- Successfully resolved technical issues with ServiceNow and TeamDynamix, leading to high ticket resolution rates and improved user satisfaction.
- Collaborated with IT teams to document network changes and deliver ongoing support.

Team Lead

Apr 2020 - Jul 2020

Research and Business Development Center

Idaho, United States

- Led a team by sharing knowledge, fostering collaboration, and implementing efficient workflows.
- Enhanced productivity and ensured a successful transition to a data analytics role by self-learning advanced Excel and data analysis

- Streamlined data processing and insight generation by creating an Excel-based workflow that delivered actionable insights, enhancing presentation impact for a startup within two months.

Projects

GitGrade

Jan 2025 - Aug 2025

Ensign College

- Collaborated with a development team to build a full-stack web application using Next.js, TypeScript, and Prisma that seamlessly integrates GitHub Classroom with Canvas LMS, enabling automated assignment linking and autograding for educational institutions
- Contributed to implementing a multi-tenant architecture with role-based access control, supporting administrators, teachers, and students with secure authentication via GitHub OAuth and Canvas API integration
- Participated in developing an automated grading system that processes GitHub repository submissions, runs test suites, and automatically updates Canvas gradebooks with real-time feedback and scoring

AI Tutoring Whiteboard

Weber State Hackathon

- Collaborated with a development team to build a multimodal AI tutoring platform using React and TypeScript that unifies whiteboard interaction, chat, and voice into a seamless learning experience.
- Worked with teammates to implement real-time vision analysis using Google Gemini 2.0 Flash, enabling the AI to interpret and respond to students' visual work directly from the canvas.
- Partnered with the team to integrate natural voice interaction through the Web Speech API and ElevenLabs, allowing for hands-free communication and lifelike AI speech responses.
- Contributed to developing a customizable tutoring behavior system with five "pushiness" levels, tailoring the AI's teaching style to each learner's engagement and learning preferences.
- **Awarded "Best Use of ElevenLabs"** for creating an innovative, conversational tutoring experience that blends visual, auditory, and interactive elements.

ClearIQ

Personal Project

- Building a SaaS platform for small businesses with a focus on automated reporting and dashboard generation.
- Designing cloud-based architecture to support real-time data access and analytics.
- Developing features that simplify decision-making for non-technical users through intuitive dashboards.