

# Ethan M. Cox

(385) 204-4201 | [linkedin.com/in/ethanmcox](https://www.linkedin.com/in/ethanmcox)

## EDUCATION

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### Brigham Young University

Apr 2027

Bachelor of Science in Computer Science, minors in Business and Mathematics

Provo, UT

- GPA 4.00/4.00 | ACT 35/36
- Russell M. Nelson Scholarship: Academic scholarship valued at 150% tuition for eight semesters
- Relevant Coursework: Data Structures, Discrete Structures, Web Development, Software Construction and Design, Computer Systems, Introductory Data Science and Machine Learning, Algorithm Design

## PROJECTS

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### Command-line Chess Application

- Designed chess engine with object-oriented programming, modeling games, boards, pieces, and moves
- Engineered a real-time multiplayer backend on AWS EC2 using WebSocket and RESTful APIs paired with a command-line client for concurrent gameplay

### Tweeter Application

- Developed full stack Twitter-like web app with React/TypeScript & AWS (Lambda, S3, API Gateway, DynamoDB, SQS) enabling scalable, serverless architecture and asynchronous processing
- Leveraged design patterns (Model-View-Presenter, Observer, DAO, DTO, Abstract Factory, Template Method) to architect modular, layered, and maintainable code across frontend and backend layers

## EXPERIENCE

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### iLabz

Jun 2025-Present

*Full Stack Software Developer*

Provo, UT

- Engineered full stack features integrating backend services with React components and state management
- Designed a multi-environment CI/CD pipeline with GitHub Actions and AWS CDK, creating staging/production releases and supporting isolated developer environments
- Researched test runners and migrated from Jest to Vitest, resolving ECMAScript compatibility issues
- Adhered to internal development best practices by conducting code reviews, creating documentation, and practicing structured commit and branching strategies with Git
- Collaborated with cross-functional teams to translate business goals into technical solutions

### Brigham Young University

Aug 2023-Present

*Family Finance Head Teaching Assistant*

Provo, UT

- Implemented rubric updates, instructional clarification, and course configuration changes to ensure course is polished, up-to-date, and easily navigable, with 200+ updates made to date
- Assisted 400+ students per semester by teaching and clarifying financial concepts over video calls and emails

### The RBL Group (On-Campus Internship)

Aug 2024-Dec 2024

*Deliverables Manager*

Provo, UT

- Led team discussions on project scope and design decisions for development of two 6-week courses
- Standardized 10+ content types and organizational structure across 40+ modules and 100+ content additions to establish quality and consistency for users and scalability for course builders

## SKILLS

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- Programming Languages: Python, Java, JavaScript, TypeScript, C++, C
- Web & Frontend: HTML, CSS, React, Node.js
- Databases & Backend: API Gateway, DynamoDB, SQL
- Cloud & DevOps: Lambda, S3, CDK, CloudFront, CloudWatch, GitHub Actions
- Tools: Git, GitHub, Jest, Vitest, Mockito