

# Corbin Ainsworth

## Full-Stack Software Engineer

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### SUMMARY

Full-Stack Software Engineer with a strong foundation in backend systems and secure, scalable REST APIs. Experienced in OAuth 2.0 authentication and HTTP protocol. Practiced with test-driven development (TDD) and collaborative agile teams. Driven to contribute to enterprise-scale, user-centric security solutions at Ping Identity.

### TECHNICAL SKILLS

**Languages:** Go, Java (foundational), JavaScript, TypeScript, Python, SQL, HTML5, CSS3

**Backend:** Node.js, Express, Flask, Django/DRF, PostgreSQL, RESTful APIs

**DevOps & Tools:** Git, Docker, CI/CD, Agile, Linux

**Security & Protocols:** OAuth 2.0, HTTP, TLS (basic)

**Testing:** Test-driven development (TDD), automated testing (Pytest, Jest, Cypress)

### EXPERIENCE

#### Frontend Developer

Feb. 2025 - Present

*Innovative Health Solutions*

*Remote*

- Developed pixel-perfect React interfaces that reduced design implementation time by 30% while achieving 100% fidelity to design specifications across all devices
- Created a reusable component library that decreased development time for new features by 40% and improved visual consistency by standardizing 25+ UI elements
- Implemented optimized API integration that reduced data loading times by 45% and decreased frontend error rates by 20%
- Collaborated with designers to translate complex healthcare workflows into intuitive interfaces, resulting in a 35% increase in user task completion rates

#### Web Developer / Full-Stack Developer (Short-Term Contract)

Sep. 2024 - Nov. 2024

*IotaLabs*

*Remote*

- Developed responsive interfaces that improved mobile user engagement by 25% while maintaining semantic HTML structure that boosted SEO performance by 30%
- Implemented custom CSS solutions that reduced bundle size by 15% while supporting complex UI components across 5 different browsers
- Reduced user search abandonment by 22% through innovative frontend workflows; established coding standards for rapid, reliable releases.

#### Lead Developer

May 2024 - June 2024

*Recipe Rendezvous - Modern Recipe Sharing Platform*

*Independent Project*

- Developed a containerized backend API using Docker, implementing secure authentication (OAuth 2.0, HTTP) and following security best practices in RESTful design.
- Designed and optimized SQL database schemas for complex data relationships, focusing on query performance and data integrity.
- Built automated testing and deployment workflows, gaining Linux and cloud experience
- Built and integrated secure RESTful APIs, applying OAuth 2.0 and HTTP standards to ensure robust authentication and safe data transfer.

#### Full-Stack Developer

2024 - Present

*Shiori - Japanese Learning Application*

*Independent Project*

- Engineered a comprehensive Space Repetition System (SRS) based on Anki algorithms that dynamically adjusts review schedules, reducing learning time by an estimated 25% compared to traditional methods.
- Developed an AI-powered conversational tutor using OpenAI Realtime API with custom prompt engineering for personalized vocabulary practice
- Used TDD in backend feature development, delivering reliable releases by writing and maintaining automated tests with each change.
- Collaborated with teams and product managers to translate requirements into functional code within agile sprints.

### EDUCATION

#### AppAcademy

Remote

*Software Engineering Bootcamp - Full-Stack Development*

*2023 - 2024*