Isaac Beale

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EDUCATION

Arizona State University, *M.S., Software Engineering, focus in Cybersecurity*
Oregon State University, *B.S., Industrial Engineering, Minor in Computer Science*

WORK EXPERIENCE

Apple - Full Stack Software Engineer: September 2022 – Present
- Build and maintain portfolio of 10+ internal tools supporting 2,000+ employees across Apple
- Developed candidate qualification system as sole developer, enabling ~100 researchers to screen hundreds of candidates per project against internal APIs
- Architected Elasticsearch integration for high-traffic tool (2,000+ users), enabling analysis of millions of survey records that previously timed out—making previously impossible queries feasible
- Designed and implemented secure inter-application authentication system using OIDC token exchange, connecting 4 internal tools with on-behalf-of flow
- **Own full development lifecycle**: collaborate with stakeholders to gather requirements, design and pitch technical solutions, implement, deploy, and maintain production systems
- ***Technologies: Django, Angular, Python, TypeScript, PostgreSQL, Elasticsearch***

Intel - Full Stack Software Engineer: August 2020 – September 2022 | Promoted to Full-Time May 2022
- Prototyped web-based request and approval system as sole developer for AFO Integration at Aloha, Oregon campus, replacing email-based communication workflows
- Evolved prototype to production-ready application supporting Intel's Virtual Factory initiative across 7 global locations(Oregon, New Mexico, Arizona, Malaysia, Israel, Ireland)
- Architected system with extensibility and customization to support varying workflow requirements and enable multi-site scalability
- Awarded Factory Recognition **Award for Superior Systems** for development contributions
- **Selected as 1 of 60 interns worldwide for 2021 Intern Showcase**, presented "On the Importance of Small Scale Web Applications"
- ***Technologies: Django, React, Python, TypeScript, PostgreSQL, CloudFoundry***

TOOLS AND SKILLS

- Languages & Frameworks: **Python, TypeScript, JavaScript, C#, Java, Django, Angular, React, Flask, Next.js**
- Databases & Infrastructure: **PostgreSQL, Elasticsearch, AWS, Vercel Heroku**
- Skills: **Agile methodology, API development, software design, full-stack development, Linux**

PROGRAMMING PROJECTS

ASU Software Engineering Capstone project (LifeMapz)
- Marketplace platform for self-help content creators to distribute digital and physical products
- One of five developers contributing across full stack using agile scrum methodology
- **Technologies: React, AWS (Amplify, Lambda, DynamoDB, Cognito, API Gateway), Stripe**

AR Campus Navigation System
- Augmented reality mobile application for Arizona State University enabling students to navigate campus with real-time AR directional overlays, QR code building information, and personalized class schedules
- Team project for graduate coursework
- **Technologies: Unity, C#, AR Foundation, Firebase**

DIGY Programming Language
- Custom programming language with Python-based syntax supporting multiple data types, control flow, static type inference, and comprehensive error handling
- Built using ANTLR for grammar parsing and visitor pattern for AST traversal
- Team project for Programming Languages course
- **Technologies: Python, ANTLR**

Keypers - https://github.com/ibeale/KeypersDashboard
- Sneaker bot rental platform developed as sole developer with 10% company ownership
- Built custom API with authentication enabling users to reset hardware IDs during rental periods
- **Technologies: Python, Flask, SQLite, AWS EC2**