

# Bailey Henderson

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## SKILLS

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**Programming:** JavaScript, TypeScript, HTML/CSS, Tailwind CSS, React, Next, Python, PostgreSQL, Node.js, Express.js

**Tools:** VSCode, Git, Bootstrap, Figma, Vitest, Jest, Agile

## EXPERIENCE

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### Software Engineer

Phoenix, AZ

#### Freelance

- Developed 8+ custom web applications using React, TypeScript, and Tailwind CSS, delivering complex features including real-time data synchronization and achieving 95% client satisfaction rate
- Architected and implemented performance optimization strategies including advanced code splitting and resource prioritization, yielding 40% improvement in core web vitals
- Orchestrated complete project lifecycles for 5+ concurrent clients while maintaining 100% on-time delivery rate

### Vehicle Technician - Software Systems Focus

Phoenix, AZ

#### Cruise

- Implemented Python scripts that automated vehicle sensor calibration, reducing setup time by 50%
- Collaborated with cross-functional teams to optimize production processes, contributing to 100% increase in output
- Developed comprehensive automated testing procedures, resulting in 60% reduction in software debugging time
- Maintained 99.9% uptime for vehicle software systems through proactive monitoring and rapid issue resolution

## PROJECTS

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### DevFusion

#### Full-stack collaboration platform optimizing software team workflows

- Architected full-stack collaboration platform using React, Node.js, and Supabase
- Implemented enterprise security system using JWT authentication and role-based access control
- Engineered real-time collaboration features including code-aware chat and file sharing
- Integrated GitHub API for repository tracking and commit visualization

### Nature Shot

#### Modern, high-performance photography showcase platform

- Developed responsive portfolio platform utilizing React and Tailwind CSS
- Implemented advanced image optimization system, achieving 65% reduction in load times
- Architected mobile-first design system using CSS Grid and Flexbox, achieving 100% responsive design across devices
- Optimized performance metrics achieving 95+ PageSpeed Insights score across all pages

## Certifications

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### Harvard CS50

#### Computer Science

- o **Concentrations:** Algorithms, Data Structures, Resource Management, Security, and Web Development
- o **Focus On:** C, Python, SQL, JavaScript, HTML, and CSS
- o **Related Coursework:** Advanced coursework in data structures, algorithms, and web development

### Scrimba

#### Front-End Development

- o **Concentrations:** Front-end web development and best practices
- o **Focus On:** JavaScript, HTML, CSS, React, API's, and Accessibility
- o **Related Coursework:** Over 80 hours of hands on tutorials, hundreds of coding challenges, and over a dozen of real-world projects

### Meta

#### Back-End Development

- o **Concentrations:** Back-end development and best practices
- o **Focus On:** Python, Linux, SQL, Cloud Hosting, API's, JSON, and XML
- o **Related Coursework:** 196+ hours of hands-on training in Python, Linux, SQL, and API development