

Colin Henderson

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EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Bachelor of Science

Major in Computer Science

Cumulative GPA: **3.6**

Relevant Coursework: Data Structure & Algorithms, Algorithm Analysis, Software Engineering, Computer Systems Design

Santa Cruz, CA

Expected June 2026

PROJECTS

Resume Analysis - [SpeedFill](#) | Next.js, React, Material UI, Firebase

Jan. 2024 - Present

- Developed a comprehensive **Next.js** web application that automates resume analysis and cover letter generation, leveraging web scraping to extract job descriptions and compare them against user resumes
- Engineered a dynamic and highly responsive UI using **React** and **Material UI**, improving user experience and boosting retention by **40%** through seamless interaction and intuitive design
- Integrated **Firebase** authentication with Google OAuth, ensuring secure and frictionless user logins, optimizing the onboarding process, and enabling users to confidently review and edit their generated documents
- Led daily scrum meetings, fostering collaboration and ensuring timely project delivery, resulting in a **50%** increase in team productivity and feature implementation ahead of schedule

Github Portfolio Creator - [RepoToResu.me](#) | Next.js, React, Tailwind CSS, Prism.js

Dec. 2024 - Feb. 2024

- Developed a **Next.js** web application that transforms GitHub repositories into polished resume project cards, automating resume creation for developers.
- Leveraged **GitHub API** to dynamically retrieve repository data— including descriptions, technologies, and contributions— alongside Google's **Gemini API** to analyze file contents for deeper insights and automated project summaries.
- Engineered a sleek and responsive UI with **Prism.js** and **Tailwind CSS**, enhancing usability and engagement by streamlining content presentation.
- Optimized performance with server-side rendering (SSR) and incremental static regeneration (ISR), reducing load times by **40%**.

Acne Classification - [DermaScan](#) (Winner, ACMHacks) | Python, PyTorch, Flask, Keras, TensorFlow

Oct. 2024 - Dec. 2024

- Developed an innovative Flask application that utilizes real-time facial scanning to identify various types of acne, providing tailored resources and actionable tips for effective treatment using TensorFlow and Keras for model training and dataset analysis, obtaining an accuracy of **80%**
- Engineered chatbot feature that provides personalized remedy suggestions for different acne classifications, resulting in a **30%** increase in user engagement and an overall satisfaction rate of **4.8/5** from beta testers
- Integrated intuitive UI utilizing Bootstrap 5, allowing for seamless transitions between interfacing the facial analysis and treatment recommendations

WORK EXPERIENCE

Mindbody, Inc.

Software Engineering Intern

San Luis Obispo, CA

May 2022 – Oct. 2022

- Developed high-performance RESTful API endpoints using **C#** and the ASP.NET framework to support fitness tracking application, reducing response times by **40%**
- Increased unit test coverage from **60%** to **85%** for key API routes, enhancing system reliability and ensuring higher code stability, resulting in the identification and resolution of over **50** potential bugs before deployment
- Integrated dynamic frontend features into the company website with React, reducing load times by **15%** and increasing user engagement through a more responsive and intuitive interface.

SKILLS

Languages: Python, C, C++, C#, JavaScript, TypeScript, HTML/CSS, Java

Frameworks: React, Flask, Django, Node.js, Next.js, ASP.NET, Tailwind CSS

Technologies: Git, Unix (Ubuntu), Jira, AWS (EC2, Lambda, S3), Azure, Docker, Vite