

Andrew Dutson

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EXPERIENCE

Science, Computer Science Teacher

January 2019 – Present

Granite School District

Salt Lake City, Utah

- Developed and designed full-stack applications for teachers to manage technical resources, averaging 250 daily users daily
- Streamlined department Google Forms by writing App Scripts, which are used weekly, increasing staff productivity by 27% and used by over 3000 users
- Liaised with stakeholders daily through reports, product meetings, and relationship building, increasing completion of projects by deadlines by 41%
- Facilitated technical training's to staff on how to use software in an education environment, increasing technology adoption rate by over 63% district-wide

Audio Engineer, Podcast Market Analyst

October 2014 – December 2019

Dark Things Podcast

Salt Lake City, Utah

- Automated Python scripts to analyze listener data to adjust production, resulting in a 70% increase in ad revenue and a 147% increase in downloads
- Enhanced show music, sound effects, and audio tracks for over 300 episodes, earning two nominations for best sound in podcasting

OPEN SOURCE CONTRIBUTIONS

The Odin Project

- Upgraded the outdated Mongoose version of the curriculum, transitioning from callbacks to async/await and try/catch blocks
- Applied maintenance fixes to remove bloated code and remove unnecessary side-effects from the curriculum

SOFTWARE DEVELOPMENT PROJECTS

ClassKeeper - Full-Stack Web App | *TypeScript, React, Python, FastAPI, MongoDB, Pytest, Jest, CSS, HTML*

- Spearheaded the architecture and design of a full-stack application for organizing teams, calendars, projects, classes, and lessons for teachers
- Demonstrated software capabilities to clients to get feedback and add wanted features into the application weekly
- Optimized systems in the app daily to keep low API response times and client renders

Blog Client, CMS, and API - Full-Stack Web App | *TypeScript, NextJS, Node.js, Express, MongoDB, CSS*

- Implemented an MVC API back-end with Node.js and Express, enhancing API response speed by 38% with token-based authentication and database indexing
- Designed two NextJS and TypeScript front-ends, a client app for viewing and interacting with blog posts, and a Content-management-system app for authenticated users to perform CRUD operations on blog posts

Espressit, Social Media App - Full-Stack Web App | *React, TypeScript, Jest, Firebase, CSS, HTML*

- Developed a full-stack coffee and espresso social media app that included user authentication, CRUD functionality, interactive styling, and full test coverage with Jest
- Improved app performance using code splitting, React hooks, and state management—Achieving high scores on all Lighthouse tests in performance, accessibility, SEO, and best practices

EDUCATION

Western Governors University

Graduated - 2021

Masters of Science in Curriculum and Instruction

Salt Lake City, UT

University of Utah

Graduated - 2020

Bachelors of Science in Education w/ STEM Endorsement

Salt Lake City, UT

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, Java, CSS, EJS, HTML

Technologies: React, FastAPI, MongoDB, Node.js, Express, NextJS, Git, Docker, Cloud Hosting