

# Andrew Dutson

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## EXPERIENCE

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### Technical Curriculum Manager, Computer Science Teacher

January 2019 – Present

*Granite School District*

*Salt Lake City, Utah*

- Developed and designed full-stack applications to help teachers manage their technical resources better, which averaged 250 users daily
- Collaborated with stakeholders daily through reports, product meetings, and relationship building, received a highly satisfactory reviews for my work
- Led technical training's for staff on how to use software in an education environment, increasing technology adoption rate by over 63% district-wide
- Managed over 50 accounts to retain customers through check-ins, follow-up training's, emails, and calls
- Streamlined an educational learning platform that has been adopted by all sixth grade science teams in our school district

## SOFTWARE DEVELOPMENT PROJECTS

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

- Led the architecture and design of a full-stack application that helps teachers stay organized through managing their teams, calendars, projects, classes, and lessons
- Demoed software capabilities to clients to get feedback and add wanted features into the application weekly
- Continually maintained and improved systems in the app daily to keep API response times and client renders as low as possible

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

- Developed an API back-end with Node.js and Express with token-based authentication and database indexing, increasing API response rate by 38%
- 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*

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

### Where's Waldo - Photo Tagging App | *React, TypeScript, Jest, Firebase, CSS, HTML*

- Built and deployed a gamified version of the Where's Waldo books
- Created a device agnostic client that can be played on any device, user clicks are sent to the back-end for validation, upon level completion users can store their score in a real-time database

## OPEN SOURCE CONTRIBUTIONS

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### The Odin Project | *Curriculum, CSS-Exercises*

- Contributed the new Mongoose v7 change of using async/await and try/catch blocks instead of callbacks to the curriculum
- Provisioned maintenance fixes to remove bloated code and remove unnecessary side-effects from the curriculum

## EDUCATION

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### 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 Elementary Education w/ STEM Endorsement*

*Salt Lake City, UT*

## TECHNICAL SKILLS

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**Languages:** JavaScript/TypeScript, Python, CSS, EJS, HTML

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