

# Kyle Charlton

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## Education

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**University of Utah** – BS in Software Development

Dec 2024

**Weber State University** – AS in General Studies

Apr 2017

## Projects

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### MyPetTag

- Developed a Web App using React as a team with the purpose of helping locate lost pets through the use of NFC tags
- Implemented back-end logic for managing users and user data to facilitate a dynamic web page with instant feedback
- Worked on front-end logic to provide an efficient way to display user and pet data within a dynamic web page

### RESTful Chat

- Developed a chat web app using modern design principles while following REST methodology for API interaction
- Implemented an API with user authentication and role enforcement using FastAPI with JSON web tokens
- Designed a responsive front-end view utilizing React and Tailwind for a dynamic web experience

### Spreadsheet Client/Server

- Worked as a team over 6 weeks to develop a functional Google Docs clone
- Implemented function tokenization and server-side verification of user inputs

### Fingerprint Scanner

- Interfaced with a fingerprint scanner to enable exporting scanned images using Java
- Currently in use by two local businesses to comply with Utah pawing requirements

## Experience

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**DevOps Software Intern**, Micro Focus – Provo, UT

Aug 2022 – Dec 2023

- Maintained and expanded a React app for aggregating build metrics and artifacts produced by Jenkins workflows
- Managed and deployed applications for internal use using Docker/Kubernetes within Rancher

**Software Intern**, nView medical – Salt Lake City, UT

Apr 2020 – Oct 2021

- Optimized and expanded upon imaging algorithms to facilitate fast and accurate 3D X-Ray imaging and processing
- Implemented high performance communication between applications to facilitate real-time imaging feedback
- Developed real-time feedback to display tool positioning within an image during live medical procedures
- Took charge and maintained the front facing client that users would interact with for taking/viewing X-Ray images

## Skills

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**Languages:** Java, C#, C/C++, CUDA, Python, JavaScript

**Technologies:** Firebase, Docker, React, WebGL