

## EDUCATION

- **Master of Science in Information Systems** / *Trine University* Jan 2024 – Present
- **Bachelor of Science in Computer Science** / *University of Utah* Aug 2018 – Dec 2022

## PROFESSIONAL EXPERIENCE

### Software Engineer | TaxBit | Mar 2022 – July 2023

- Developed user account information service to facilitate user account information download, utilizing **AWS S3**, **DynamoDB** and **Redshift** within the **NestJS** Framework. Reduced the download latency by 50% for extensive datasets.
- Designed and shipped Automated End to End test suit using **Playwright**, **Auth0**, **Docker**, **AWS ECR**, and **CircleCI** for Customer Identity and Access Management (CIAM) service. Decreased bug detection and response time by 90%.
- Designed and shipped Transaction Classification feature using **AWS Aurora RDS**, **PostgreSQL** and **AWS Lambda**, enhancing product differentiation and market competitiveness.
- Identified optimization opportunity and migrated **Lambda Functions** from **Clojure** to **Typescript**, reducing lambda cold start latency by 350%.
- Collected reporting requirements across functions (product manager and engineers), and designed ETL ingestion pipeline using **Lucidchart**, **Confluence**, and **AWS workflow Studio** to enhance business intelligence functions.
- Collected user requirements, designed, and shipped **REST API** using **Swagger** under **Serverless** Framework, and tested using **Postman** to enable internal data transfer, supporting feature development across 20+ engineers in different teams.
- Owned maintenance of existing product features including debugging, unit tests and end-to-end testing using **Jest** and **Datadog**, achieving <1% of feature error rate.
- Participated in different workflow management methodologies in **Jira** such as **Kanban** and **Scrum**, as well as daily stand-up and retro meetings.

### Full-Stack Engineer (Intern)| The Western United States Pipe Band Association | Jan 2021 – Dec 2021

- Collaborated with data engineering team to design schema, created **MySQL** database, and enabled user authentication leveraging **AWS Amplify** and **AWS Cognito** Identity.
- Refined user requirement. Implemented mapping and calendar services using **Google API**, and payment service using **PayPal API**.
- Formalized best practices into frameworks, refactored legacy code to improve testability and maintainability, tested APIs using **Postman**, and documented APIs at scale using **Swagger**.
- Communicated and presented to internal teams and stakeholders on project status, risks, and solutions to improve functionality.

## PROJECTS

### Web Scraping (Python, BeautifulSoup)

- Ethically scraped web content after verifying compliance with /robots.txt, using Python scripts.
- Employed **BeautifulSoup** for data cleaning and parsing, transforming HTML content into structured data, and refining website information through custom filters and sorting.

### Machine Learning (Python, ImageAI, Jupiter Notebook, Pandas, Seaborn, bokeh)

- Engaged in a comprehensive learning journey covering various Machine Learning stages, including data importation, cleaning, splitting into training and test sets, model creation, output evaluation, and model enhancement, utilizing Jupiter Notebook.
- Innovated an Image prediction application leveraging the ImageAI library.

### Flask Web Development (Python, Flask, HTML, CSS, JavaScript, Selenium)

- Conceptualized and executed a portfolio website using **Flask**, integrating **HTML**, **CSS**, and **JavaScript**.
- Implemented **Message Flashing** for error handling and form submission feedback.
- Developed Automated Tests with **Selenium**, ensuring systematic functionality verification.
- Incorporated a single-page application, 'Password Checker', applying **k-anonymity** for secure communications with third-party APIs.

## SKILLS

- **Language:** JavaScript, TypeScript, Python, Java, Dart, C#, C++, Clojure
- **Runtime Environment:** Node.js, Flask
- **Framework:** Flutter, Serverless, AWS SAM, NestJS
- **Database:** MySQL, PostgreSQL, DynamoDB
- **CI/CD:** GitHub Action, CircleCI
- **AWS:** Lambda, S3, Redshift, DynamoDB, API Gateway, EC2, ECR, RDS, CloudWatch, CloudFormation, Step Functions
- **Tools | Platforms:** React, Playwright, Auth0, Git, Docker, Postman, Swagger
- **Others:** HTML/XML/CSS, REST API, SQL, GraphQL, Unit Test, Infrastructure as Code, Data Structure and Algorithms, Frontend, Backend, Microservices, Confluence, Jira, Object-Oriented Programming, Functional Programming, Linux