

Jonathan Wyatt Pilling

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PROFESSIONAL EXPERIENCE

Plaid

Salt Lake City, UT

Software Engineer – NodeJS / Typescript

May 2021 – Present

- Developed back-end integration applications in NodeJS/Typescript retrieving data from disparate sources (RESTful APIs, GraphQL, HTML parsing with CSS selectors, etc.)
- Implemented a remote Chromium service running outside of our regular NodeJS service to handle browser automation. Developed integrations between the services using WebSockets, cutting costs by ~8k a month.
- Implemented OAuth 2.0 (PAR) for American Express integration, resulting in a more secure OAuth flow and allowed better tracking of user consents.
- Developed a product to automate transferring investments between financial institutions, leveraging Protobufs and existing APIs unlocking 1M in ARR.
- Proposed and implemented an alerting solution written in Typescript, utilizing Kafka, which helped reduce error rates to <0.5% for 90% of users.
- Developed dashboard using AWS Redshift to identify perpetual user errors and make them easily query-able. This resulted in quicker troubleshooting for these error types.
- Implemented improved redaction strategy for request hashing on URL path and query parameters in Typescript, securing user data before PostgreSQL storage and resulting in increased visibility on failing endpoints.
- Enabled Pyroscope to run alongside CI to generate flame graphs, this resulted in identifying groups of obsolete tests with long run times. Removing these discovered tests sped up CI by ~30%.
- Developed and executed a comprehensive browser automation ownership plan, outlining a one-year road-map for efficient browser automation processes.

Progrexion

Salt Lake City, UT

Software Engineer – Python

March 2020 – April 2021

- Developed and integrated machine learning applications in Python using Flask, Docker, and Redis. Services were deployed to the cloud via AWS/Heroku.
- Developed an internal call routing API utilizing machine learning that increased conversion rate by 8%.
- Developed a Flask API datastore that was able to query data from disparate sources and servers using HTTP and MySQL.
- Developed Docker Compose files to containerize local development and achieve full parity with production environment.

Chart Logic

Salt Lake City, UT

Software Engineer in Test (Intern) - C#

June 2019 – February 2020

- Responsible for testing software (Functional, Regression, System) and automating tests using Selenium in C#.
- Fully automated testing of website permissions functionality, completely removing manual test needs for this feature.

Coda Octopus Group

Salt Lake City, UT

Electrical Testing Engineer (Intern)

October 2018 – April 2019

- Demonstrated strong analytical and critical thinking skills while testing software and hardware.

EDUCATION

University of Utah

Salt Lake City, UT

Bachelor of Science in Computer Engineering

Graduated December 2019

TECHNICAL SKILLS

- **Languages:** Typescript, Python, SQL, HTML5, CSS, C, C#, Java, Go
- **Technologies:** Git, PostgreSQL, CI/CD, Redis, AWS, Kubernetes, Kafka, React.js

Hobbies: Play drums in successful local bands, competitive Super Smash Bros. Player, car enthusiast.