

# Jonathan Wyatt Pilling

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## PROFESSIONAL EXPERIENCE

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### 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)
- Implemented a remote Chromium service running outside of existing NodeJS service. Developed integration 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 from 6% 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

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### University of Utah

Salt Lake City, UT

*Bachelor of Science in Computer Engineering*

*Graduated December 2019*

## TECHNICAL SKILLS

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- **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.