

Reid Fluegel

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SUMMARY

I'm a Software Engineer with a solid background in full-stack development, focusing on TDD, CI/CD, and DevOps. I love building efficient solutions quickly and setting up strong testing and monitoring tools around them. I'm always eager to learn new technologies and improve my skills, both technical and soft, because I aspire to become a Lead Software Engineer at a startup.

SKILLS

1. **Languages:** Groovy, Java, Python, TypeScript, JavaScript, HTML, CSS, YAML, JSON
2. **Tools:** API, AWS, Bash, Brew, Cassandra, ChatGPT, CockroachDB, Cypress, Docker, Dynatrace, Express.js, Fly.io, GitHub Copilot, Git, Gradle, Grafana, Insomnia, IntelliJ IDEA, Jenkins, Jest, JOI.js, Kafka, K6, Kibana, Liquibase, MacOS, Memcached, nltk, Node.js, NoSQL, numpy, OpenAPI, Passport.js, Playwright, React, REST, Selenium, SMTP, Spock, Splunk, Spring Boot, SQL, Svelte Kit, tensorflow, Unix, Wiremock
3. **Practices:** Agile, Extreme Programming (XP), Paired Programming, Retrospectives, Standup, Manifesto, Quarterly Planning, Mobbing, Test Driven Development (TDD), Trunk-Based Development, CI/CD, DevOps, QA

EXPERIENCE

Back End Software Engineer

Best Buy, Richfield, MN - Pricing Services

03/2023 - 07/2023

1. **Summary:** Integrated seamlessly into a longstanding team responsible for a Groovy-Java microservice backend application, crucial for pricing strategies across dotcom platforms and internal tools.
2. **Languages:** Groovy, Java, SQL, JSON
3. **Tools:** Jenkins, Spock, REST, Github, AWS, API, Spring Boot, Cassandra, Podman, Kafka, Splunk, IntelliJ, Jira, MacOS
4. **Practices:** TDD, Agile, Paired Programming, Retrospectives, Standup, One Day in Office
5. Contributed to 14 Spring Boot microservices, enabling the processing of over 30 million daily requests from internal and e-commerce platforms.
6. Seamlessly decommissioned API, ensuring zero downtime, and updated API documentation and architectural diagrams.
7. Introduced the team's first automated end-to-end testing, eliminating one manual test requirement for the QA team.
8. Led team's adoption of XP practices, including agile, TDD, and paired programming.

Full Stack Software Engineer

Best Buy, Richfield, MN - Promo Lab

09/2020 - 03/2023

1. **Summary:** Contributed to a pioneering team focused on transitioning promotion planning for internal employees from traditional spreadsheets and emails to a centralized, modern, web-application platform.
2. **Languages:** Groovy, Java, JavaScript, SQL, JSON
3. **Tools:** Jenkins, Spock, React, Cypress, Selenium, CockroachDB, REST, MacOS, IntelliJ IDEA, Github, Splunk, Kibana, K6, Liquibase, OpenAPI, Spring Boot, Wiremock, Jest, Teams, Grafana, Kibana, Dynatrace, Slack, Brew, Bash
4. **Practices:** TDD, Agile, Paired Programming, Retrospectives, Manifesto, Standup, Mobbing, Quarterly Planning, Trunk-Based Development, CI/CD, XP, DevOps, QA, One Day in Office

5. Contributed significantly to the full-cycle development of a client-centric Groovy-Java-JavaScript application, driving the project from concept to deployment and achieving operational success in just two years.
 6. Engineered and optimized 3 key Spring Boot microservices and React front end, reducing deployment time by 33%.
 7. Proactively engaged in weekly and quarterly stakeholder meetings to identify needs and devise strategic compromises, streamlining development efforts while meeting project objectives.
 8. Scripted database migration from Promo Lab 1.0 to Promo Lab 2.0 without data loss or downtime.
 9. Utilized Kibana, Grafana, Dynatrace, Splunk for system monitoring and proactive issue resolution.
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PROJECTS

Full Stack Engineer

Credit Karma Clone ([personal-finance-web-app](#))

09/2023 - 04/2024

1. **Summary:** Leveraged accumulated knowledge to develop a full-stack web application, embodying an optimally maintainable, secure and aesthetic financial overview hub with user management.
2. **Languages:** TypeScript, JavaScript, HTML, JSON, YAML, SQL
3. **Tools:** Plaid, d3, Jest, Github, Github Actions, Express.js, Node.js, Passport.js, Postgresql, K6, Fly.io, Docker, Svelte Kit, Playwright, OpenAPI, JOI.js, SMTP, REST, WebStorm, TypeORM.js, Winston.js, psql, Brew, ChatGPT, GitHub Copilot
4. **Practices:** TDD, Agile, Trunk-Based Development, CI/CD, DevOps, QA
5. Led the development of a TypeScript web application, implementing automated testing methodologies including unit, integration, blackbox, end-to-end, and performance tests to ensure robustness and reliability.
6. Designed a scalable backend supporting user management, plaid integration, token management, encryption, and developed a dynamic Svelte Kit frontend for login, account management, and net worth overview.
7. Integrated CI/CD workflows using GitHub Actions, automating testing, deployment, and dependency updates to streamline development processes and maintain code quality.
8. Thoroughly documented the API using OpenAPI specifications, ensuring comprehensive and interactive documentation allowing manual testing from UI.
9. Optimized development processes with TypeORM.js for database interactions, Winston.js for application logging, and deployed the application to the cloud using docker containers with Fly.io.

AI Engineer

Chatbot ([chatbot-repo](#))

05/2024

1. **Summary:** Developed an AI chatbot utilizing Python, NumPy, NLTK, and TensorFlow to enhance user interactions through intelligent, context-aware responses. Focused on creating robust training datasets and optimizing model layers for improved performance and efficiency.
 2. **Languages:** Python
 3. **Tools:** NumPy, NLTK, TensorFlow
 4. **Practices:** Data Preparation, Model Optimization, Machine Learning, Natural Language Processing
 5. Implemented various methods for generating and augmenting training data to enhance the model's understanding of user intents and context.
 6. Explored and applied best practices in designing and tuning neural network layers using TensorFlow to optimize chatbot response accuracy and speed.
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EDUCATION

Bachelor of Science, Computer Science, University of Minnesota - Twin Cities, College of Science and Engineering