PATRICK GASTON

SOFTWARE ENGINEER
LINGUIST
INVENTOR

SUMMARY

With over 9 years of experience primarily in the financial technology sector, I am a dynamic and creative full-stack software engineer proficient in producing robust, high-quality code for large-scale, enterprise-level systems. Currently, I hold the position of Senior Software Engineer on the Intuit TurboTax Team, where I specialize in building innovative software solutions for tax customers.

PATENTS

Financial education tool systems and methodsFinancial education tool systems and methods
US-12100041-B1 · Issued Sep 24, 2024

Temporary payment card security system
US-12373838-B1 · Issued Jul 29, 2025

Systems and methods for managing combinations of verification data and transaction data
US-12456120-B1 · Issued Oct 28, 2025

Transaction card systems and methods for managing transaction outputs
US-12462244-B1 · Issued Nov 4, 2025

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PROFESSIONAL EXPERIENCE

Senior Software Engineer

Intuit (Plano, TX) May 2022 - Present

Senior Software Engineering position on the ProConnect and TurboTax Team:
- Drove enhancements to TurboTax's customer-expert matchmaking algorithm, improving accuracy and customer experience and contributing to 40%+ revenue growth during tax season.
- Led development of a feedback integration system that increased actionable data points by 50%+, accelerating the customer–company feedback loop.
- Championed engineering quality across a cross-functional project, implementing AI-powered and manual solutions that reduced year-over-year defects by 90%.

Software Engineer I

USAA (Plano, TX) August 2021 - May 2022

Tech Lead Software Engineering position with USAA's Bank Innovation team:
- Led Debit Limit Increase modernization, launching mobile-first solutions that enabled millions of members to easily request and manage debit limit increases.
- Developed and ran engineering onboarding/training, mentoring new hires and streamlining hiring through technical interviews.
- Implemented Kafka-based event-driven logging, enhancing observability and reducing troubleshooting time across distributed systems.
- Contributed to innovation sessions, with ideas frequently advancing to patent submissions.

Software Engineer II

USAA (Plano, TX) April 2020 - August 2021

Mid-Level Software Engineering position with USAA's Bank Innovation team:
- Identified and managed existing and emerging risks that stem from business activities and the job role
- Spearheaded dev CI/CD and code review process by utilizing GitLab templating which made a significant improvement on code quality and increased code delivery speed by over 3%
- Improved REST API service performance from over 10 seconds to around 3 seconds by Implementing multi-threading/asynchronous solutions via Spring to meet business SLO's
- Participated in regular innovation/invention sessions for the Bank Innovation group that often led to patent submissions

Software Developer III

Paychex, Inc. (Denver, CO) | June 2018 - March 2020

Mid-Level Software Engineering position working to modernize a legacy financial system:
- Designed and led our team's security improvements to our pipeline via sonarQube, Including making CI/CD changes to incorporate built-in quality checks to meet team requirements
- Supported our application in production via an on-call rotation by monitoring real-time production logs, conducting analysis, doing thorough write-ups and implementing a solution

Software Developer II

Paychex, Inc. (Denver, CO) | February 2017 – August 2018

Mid-Level Software Engineering position working to modernize a legacy financial system:
- Collaborated with the engineering team to plan, design, and develop converting a legacy monolithic Java 5 application to a microservice architecture using Java 8+ and Angular 2+
- Built a group of microservices including a gateway (leveraging Netflix Zuul) and various business services
- Saved dozens of man-hours per month by streamlining the local development process by helping develop docker instances of our complex legacy + modern application in parallel to help reduce development and testing time
- Contributed to discussions and used engineering expertise to implement architectural-level design decisions

Assistant Instructor (TA)

Skill Distillery Full-Stack Java Bootcamp | February 2017 – Dec 2017

Teaching position at one of the only Java Coding Bootcamps in the Country:
- Delivered a range of teaching and assessment activities including mini-lectures to hands-on tutorials directed towards the delivery of complex concepts to students
- Support program with constant student-department feedback loop to better assess the needs of future cohorts
- Participate in the assessment process using a variety of methods and techniques and provide effective timely and appropriate feedback to students to support their learning

EDUCATION

B.A. Linguistics

Stony Brook University, NY | August 2014 - May 2016

- B.A. Linguistics (Special Interest in Theoretical & Computational Linguistics)
- Focus on Natural Language Processing & Language Acquisition
- Studied 1 year (2 semesters) of both French and Arabic (NSA's STARTALK Government Program)
- Vice President of the Undergraduate Linguistics Club

Full-Stack Java Web Developer Certificate

Skill Distillery Full-Stack Java Bootcamp | July 2016 - Nov 2016

- 19-week @ 50+ hrs per week intensive programming boot camp. Technologies taught/practiced include: Java SE/EE, Spring MVC, Maven, MySQL, MongoDB, JPA, RESTful web services, XML, HTML5/CSS3, JavaScript, (JQuery, Node, Angular), Linux, and Git/Github
- Additionally, industry best practices in data modeling, design patterns, agile methodologies, and paired-programming were utilized daily

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, SQL, Python, HTML5, CSS
Client-side Technologies: AJAX, JQuery, AngularJS, Angular, React, NodeJS, Bootstrap, Redux
Server-Side Technologies: MySQL, SQL Developer, Apache Tomcat, JPA/Hibernate, MongoDB, Kafka, Hazelcast, Kafka, Netflix Zuul, Redis
Server-Side Frameworks: Spring (MVC, Boot, Security)
Automation/Build/Deploy Tools: Docker, Jenkins, GitLab Pipelines, OpenShift, AWS, Kubernetes
Patterns & Architectures: MVC Design Pattern, REST, SOAP
Computational Linguistics Toolkits: Python NLTK, Apache OpenNLP (Java)
Software Development/Management Tools: Git (GitHub/Gitlab), Eclipse, Maven, Gradle, IntelliJ, Ant, Subversion, JIRA