

Alex Georgiev

702-506-6392 | alexgeorgiev03@yahoo.com | [linkedin.com/in/alexgiev](https://www.linkedin.com/in/alexgiev) | github.com/alexgiev

Mathematics student with practical experience in software engineering, and app development. I'm passionate about combining analytical thinking with creative problem-solving to build scalable, data-driven products that make a real impact. I enjoy turning complex systems into simple, efficient solutions that people can rely on.

EDUCATION

University of Washington

Bothell, WA

Bachelor of Science in Mathematics; Minor in Applied Mathematics

Expected June 2026

Relevant Coursework: Data Structures & Algorithms, Interaction Programming, Machine Learning, Linear Algebra, Probability & Statistics, Differential Equations, Math Modeling, Numerical Analysis, Abstract Algebra, Discrete Math, Artificial Intelligence, Engineering Diversity, Real Analysis

Clubs & Activities: The Boring Club, Chi Psi Fraternity, Math Mentor | Dean's List Honoree

PROJECTS

TabSplit | *Flutter, Azure OCR, Isar, Provider*

2025

- Built a cross-platform mobile app that scans and parses receipts using Azure OCR, cutting manual entry time by up to 80%.
- Implemented persistent local storage with Isar DB handling 500+ entries and reactive state management via Provider.
- Designed responsive UI with semantic widgets following WCAG accessibility standards.
- Managed a 3-person team using Git and iterative sprints for full feature delivery.

Predictive Trader | *Python, scikit-learn, pandas, Coinbase API*

2025

- Developed an ML pipeline forecasting BTC and DOGE movement using regression + technical indicators, increasing personal ROI by 17%.
- Automated ingestion and live-trade simulation across 10K+ entries per run using Coinbase API.
- Optimized hyperparameters, feature selection, and backtesting to boost accuracy and minimize variance.
- Implemented visualization dashboards for performance tracking and evaluation.

FlexaStream (Flexapay Subsystem) | *Kafka, ClickHouse, Redpanda, Netty, Docker*

2025

- Developed an event-driven telemetry pipeline for Flexapay, streaming and processing 10K+ events/sec in real time.
- Integrated Kafka and Redpanda clusters for fault-tolerant delivery with message persistence.
- Built ClickHouse ingestion layer enabling analytical queries and metrics with under 1s latency.
- Dockerized services and monitoring stack for scalable, reliable deployments.

Fondant Toppers Booth | *Python, Flask, HTML/CSS, SQLite, BeautifulSoup*

2024

- Designed and deployed a full-stack e-commerce platform for a small business, featuring product catalog, checkout, and admin dashboard.
- Automated product import via Etsy web scraping, reducing manual updates by 90%.
- Implemented secure authentication and session-based login with input validation to protect data.
- Deployed responsive Flask templates achieving under 200ms load time across devices.

EXPERIENCE

Software Engineer

2024 – Present

Flexapay - Local Startup

Seattle, WA

- Architected backend using Kafka + ClickHouse, supporting 10K+ transaction events/sec for group payments.
- Integrated Firebase Auth, REST APIs, and React Native frontend for synchronized user experience.
- Built analytics layer for real-time balance computation, improving settlement latency by 40%.
- Collaborated with design and product teams to deliver MVP and manage agile iteration cycles.

Shift Manager

2022 – 2023

Chipotle Mexican Grill

Seattle, WA

- Supervised a 10-member team, optimizing workflows and reducing average order time by 15%.
- Trained new staff and maintained food safety and service quality in a high-volume environment.

TECHNICAL SKILLS

Languages: Java, Python, Dart, SQL, C, HTML/CSS,

Frameworks & Tools: Flutter, Firebase, Flask, Isar, Provider, Azure OCR, React Native, Kafka, Docker, Git, MATLAB

Concepts: Object-Oriented Programming, APIs, Event-Driven Systems, Cloud Integration, Accessibility (WCAG), Optimization, State Management, Data Pipelines, Cloud Deployment