

# Blake Gabriel

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## Skills

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**Languages:** Java, Kotlin, Scala, Groovy, Python, Go, C, C++, C#, JavaScript, HTML, CSS, SQL

**Frameworks / Libraries:** Spring Boot, Flask, React, NodeJS, ExpressJS, Selenium, OpenCV

**Databases:** DynamoDB, Cassandra, Firestore, PostgreSQL

**Cloud & DevOps:** AWS, Google Cloud Platform, Docker, Git/GitHub, Terraform, Jenkins, Spinnaker, Kafka, Datadog, Sumo Logic

## Education

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### University of Minnesota

B.S. Computer Science - 3.78/4.0 GPA

*Minneapolis, MN*

*Expected Graduation: Dec 2026*

### Crown College

PSEO - 3.85/4.0 GPA - Earned 52 college credits prior to high school graduation

*St. Bonifacius, MN*

## Experience

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### Samsung SmartThings

Software Engineer Intern

*Minneapolis, MN*

*Jun 2025 - Aug 2025*

- Fully owned the migration of refresh token functionality and an additional service, defining DynamoDB schemas in Terraform, DAO layers, migration endpoints, and dual-write logic in Kotlin, Groovy, and Spring.
- Managed complete migration process and SoT transfer from Cassandra to DynamoDB, including implementing migration and validation endpoints, ensuring zero-downtime and data integrity.
- Contributed across Kotlin, Java, Groovy, and Scala codebases for services powering the SmartThings IoT platform, supporting authentication and authorization at scale and processing over 60 billion requests per day.
- Managed deployment, monitoring, and incident response for 25 microservices using Jenkins, Spinnaker, Datadog, and SumoLogic.
- Participated in on-call rotation, diagnosing and resolving production incidents to support system reliability.

### ReelLawyers

Software Engineer Intern

*Minneapolis, MN*

*Sep 2024 - May 2025*

- Collaborated with software engineering teams at Thomson Reuters to deliver software for firms across the U.S.
- Developed ReelLawyer's internal production management software aimed at streamlining and managing the video shoot setup, script writing, and end-to-end workflow, reducing production time by 70%.
- Developed middleware, RESTful API, and front-end web app using C#, .NET, and React.
- Engineered and maintained a cloud database using PostgreSQL to manage and deliver centralized data.

### Defiant

Account Manager Intern

*Los Angeles, CA*

*May 2024 - Aug 2024*

- Supported account strategy and communication for key clients, including Jake Paul, Good Morning America, and NASCAR.
- Collaborated with the creative and project management teams to understand and translate client needs.
- Increased client base by 7% through targeted outreach, contributing significantly to company growth.

## Projects

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### NFL Football Pool Algorithm

- Developed a Python-based algorithm for aiding a user in making picks for an NFL football pool with a non-standard format that led to me taking 2nd place out of over 60 participants.
- Utilized statistical analysis of historical matchup data, sports analyst predictions, and current team rankings to derive expected outcomes of matchups throughout the season and inform picks for each week.
- Implemented web scraping and API integration to gather current data from websites and databases.

### Prediction Market Market-Making Engine

- Engineered an automated market-making engine for prediction markets, achieving an average intraday ROI of 6.37%.
- Implemented inventory-skew, spread-tightening, and queue-based strategies derived from academic market microstructure research to improve fill probability and control exposure in volatile, low-liquidity environments.
- Built real-time order management, preventing stale quotes, ensuring strict position limits, and enabling dynamic position sizing.

### MixFlix - iOS and Android Movie Recommendation App

- Developed and launched a mobile app for iOS and Android with Flutter, successfully acquiring 35+ beta testers via word of mouth.
- Managed the full product lifecycle from ideation to release, including shipping weekly updates based on user feedback and bug reports using TestFlight and MS App Center, complete with patch notes and user communication emails to drive engagement.
- Designed a content recommendation system using collaborative filtering and utilized Firebase for real-time database updates.