# Jake Palanca · Software Engineer

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## SUMMARY OF QUALIFICATIONS

Database-focused developer working primarily with **Java (Spring Boot)**, **AWS**, **React**, and **SQL/MySQL**. I build secure, data-driven applications with strong backend architecture and persistence design. I also build *iOS apps* in **Swift**/**SwiftUI**.

## EDUCATION

**University of Georgia**                                                                                          Graduation May 2026
*Bachelor of Science, Computer Science*                                                                                        3.6 GPA

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Swift, C, Python
**Frameworks:** Spring Boot, React, SwiftUI
**Databases**: MySQL, MongoDB, DynamoDB, S3
**Tools/Cloud:** AWS, CI/CD, REST APIs, Docker, Git, JUnit

## RELEVANT PROJECT EXPERIENCE

**AI Minecraft Builder**, *Team Hackathon Project*
- Developed a cost-effective *SageMaker* endpoint to inference *Hunyuan3D 2.1* to create and upload meshes and textures from an image to an *S3* bucket.
- Architected a serverless backend to support all other stages using *AWS Lambda*. Centralized access of the pipeline to *Lambda* workers that managed jobs.
- Created a *CloudFormation* file that allows anyone to host the entire project for themselves with extensive documentation and configuration.

**Cast Browser**, *Personal Project (Ongoing)*
- Built a *WKWebView*-based media detection pipeline using *JavaScript* injection to identify video resources and capture required request metadata for on-device conversion in real time.
- Integrated *MobileVLCKit* as a fallback playback engine and implemented a local *proxy* layer to normalize/forward streams for reliable iOS playback.
- Implemented a unified casting flow across *AirPlay* and *Google Cast*, using a local HTTP relay to provide authenticated playback to devices when headers/tokens are required.

**Cinema Booking Website**, *Class Project*
- Shipped auth suite with token-validated flows; *bcrypt*-hashed passwords and *JSON web tokens* with expiry/invalidations.
- Tokenized simulated payment data and *encrypted* sensitive columns at rest using a JPA *@Convert*.
- Implemented seat selection, inventory holds, and admin tooling; added *input validation* and *basic rate limiting*.
- Collaborated on a five-person *Agile* team; contributed to sprint planning, standups, and reviews.

## RELEVANT EXPERIENCE

**One Page Thinking**, *Software Developer*                                                                February 2026 - Present
- Built and maintained an admin dashboard on AWS for secure file management using *Lambda*, *Cognito*, and *S3* on a website created using *NextJS*.
- Implemented role-based access and operational tooling for managing site content and stored assets, improving reliability and maintainability.
- Debugged and fixed third-party *Yahoo Finance API* integration issues, improving data accuracy and reducing failed requests in production.

## RELEVANT COURSEWORK

Software Development | Computer Architecture | Operating Systems | Systems Programming | Computer Networks | Database Management | Web Programming | Artificial Intelligence