

Jake Palanca

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EDUCATION

University of Georgia

Athens, GA

Bachelor of Science, Computer Science | GPA: 3.6

Graduation: May 2026

- Relevant Coursework: Artificial Intelligence, Software Development, Computer Architecture, Operating Systems, Systems Programming, Computer Networks, Database Management, Web Programming

EXPERIENCE

One Page Thinking

February 2026 – Present

Software and Content Developer

Athens, GA

- Built and maintained an admin dashboard on AWS for secure file management using *Lambda*, *Cognito*, and *S3* on a website created using Next.js
- 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

PROJECTS

AI Minecraft Builder

Team Hackathon Project

- Developed a cost-effective *SageMaker endpoint* to run *Hunyuan3D 2.1*, generating meshes and textures from an image and uploading them to an S3 bucket
- Architected a serverless backend to support the remaining stages using *AWS Lambda*, centralizing pipeline access to workers that managed jobs
- Created a *CloudFormation* deployment that allows anyone to host the project with extensive documentation and configuration

Cast Browser

Personal Project (Ongoing)

- Built a *WKWebView* media detection pipeline using JavaScript injection to identify video resources and capture required request metadata for real-time, on-device conversion
- Integrated *MobileVLCKit* as a fallback playback engine and implemented a local proxy layer to normalize and 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 when headers or tokens are required

Cinema Booking Website

Class Project

- Built backend services with *Spring Boot*, *Spring Web* REST APIs, and *Spring Data JPA* for persistence
- Implemented authentication and data protection with *Spring Security* and *JWT* tokens, plus field encryption/decryption using *Jasypt*
- Configured *SQLite* with schema auto-managed by *Hibernate*; supported seat selection, inventory holds, and admin tooling

TECHNICAL SKILLS

Languages: Java, JavaScript, Swift, Python

Frameworks: Spring, React, Next.js, SwiftUI

Databases: MySQL, MongoDB

Testing: JUnit, XCTest, Mockito

Tools: Git, Docker, MySQL Workbench, MongoDB Atlas

Build Tools: Maven, npm, brew, Gradle

AWS: EC2, S3, DynamoDB, CloudFront, SageMaker, Lambda, API Gateway