

Jake Palanca

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EDUCATION

University of Georgia <i>Bachelor of Science, Computer Science</i> <i>GPA: 3.6</i>	Athens, GA <i>Graduation: May 2026</i>
• Relevant Coursework: Artificial Intelligence, Software Development, Computer Architecture, Operating Systems, Systems Programming, Computer Networks, Database Management, Web Programming	

EXPERIENCE

One Page Thinking <i>Software and Content Developer</i>	February 2026 – Present Athens, GA
• Built and maintained an admin dashboard on AWS for secure file management using <i>Lambda, Cognito, and S3</i> 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 <i>Yahoo Finance API</i> integration issues, improving data accuracy and reducing failed requests in production	

PROJECTS

AI Minecraft Builder	Team Hackathon Project
• Developed a cost-effective <i>SageMaker endpoint</i> to run <i>Hunyuans3D 2.1</i> , generating meshes and textures from an image and uploading them to an S3 bucket • Architected a serverless backend to support the remaining stages using <i>AWS Lambda</i> , centralizing pipeline access to workers that managed jobs • Created a <i>CloudFormation</i> deployment that allows anyone to host the project with extensive documentation and configuration	

Cast Browser	Personal Project (Ongoing)
• Built a <i>WKWebView</i> media detection pipeline using JavaScript injection to identify video resources and capture required request metadata for real-time, on-device conversion • Integrated <i>MobileVLCKit</i> 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 <i>AirPlay</i> and <i>Google Cast</i> , using a local HTTP relay to provide authenticated playback when headers or tokens are required	

Cinema Booking Website	Class Project
• Built backend services with <i>Spring Boot</i> , <i>Spring Web REST APIs</i> , and <i>Spring Data JPA</i> for persistence • Implemented authentication and data protection with <i>Spring Security</i> and <i>JWT</i> tokens, plus field encryption/decryption using <i>Jasypt</i> • Configured <i>SQLite</i> with schema auto-managed by <i>Hibernate</i> ; 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