Jacob Smith

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BACKEND & SYSTEMS SOFTWARE DEVELOPER

Computer Science student with hands-on experience in Java backend development and REST API design. Strong foundation in Linux-based development, low-level programming concepts, and secure software fundamentals, with experience teaching and communicating technical ideas. Seeking software engineering internship to apply programming skills in a professional development environment.

KEY COMPETENCIES

C (Systems Programming)	Secure Software Architecture	Version Control (Git)
Java/Spring Boot	Linux / Command Line	Code Review
REST API Development	Problem Solving	Technical Communication

PROFESSIONAL EXPERIENCE

Code Ninjas   **June 2025 - Present**
Sensei & Content Team Member
Teach programming concepts to students aged 7-14 while developing educational curriculum content for game development programs.

Accomplishments:
- Teach programming fundamentals including JavaScript, C#, and Block-based coding to students ages 7-14
- Develop educational content for Purple and Black Belt curriculum focused on Godot game development
- Convert Unity C# projects to Godot GDScript, demonstrating cross-platform development skills
- Guide students through debugging process and project-based problem solving
- Collaborate with education team that spans the nation to improve curriculum effectiveness and student engagement
- Contributed to center achieving 87% trial-to-membership conversion rate, 50 points above national average
- Co-designing the new Unreal Engine learning pathway from scratch with Code Ninjas Corporate
- Building a facility-based reward platform using Java with Spring Boot, with a TypeScript single-page application for students and a Thymeleaf-based admin interface.

Tennis Warehouse   **August 2023 - June 2025**
Lead Stringer & Quality Checker
Handled racquet stringing and quality control while training new employees on warehouse procedures.

Accomplishments:
- Trained new team members on stringing techniques and quality standards
- Managed inventory tracking and equipment maintenance
- Performed quality checks on completed racquet stringing work
- Maintained organized workspace in fast-paced warehouse environment

EDUCATION

University of North Georgia, Dahlonega, GA   **Expected May 2028**
Bachelor of Science in Cybersecurity & Computer Science | Minor in Fintech

- GPA: 3.54/4.0
- Computer Science II, Applied Cybersecurity, Script Programming

Denmark High School, Alpharetta, GA   **Graduated May 2024**
Diploma

- GPA: 3.8
- AP Computer Science Principles, AP Computer Science A
- Captain, Varsity Football Team
- Student of the Year Award

TECHNICAL PROJECTS

NinjaBux - Multi-Tenant Gamified Ledger and Progression for Code Ninjas
Java, Spring Boot, HTML, SCSS, TypeScript

- Designed and built a facility-scoped platform to track student progression, rewards, and purchases across multiple Code Ninjas locations.
- Developed two independent single page applications: an admin dashboard for facility management and a student portal for bux tracking, leaderboards, and the shop.
- Implemented a ledger-based system where all balance changes are recorded as immutable transactions.
- Created a layered Spring Boot backend (Controller to Service to Repository)
- Implemented JWT authentication and role-based access control
- Integrated with external Code Ninjas REST API to synchronize student progression data
- Implemented purchase life cycle workflows with inventory and ledger consistency

CentDash

Java, Spring Boot, Spring Data JPA, H2

- Personal finance API with single-table inheritance pattern for income and expense tracking
- Automated budget tracking system that updates current spending against limits
- Aggregation endpoints calculating financial summaries with cent-based precision to avoid floating-point errors

Inventory Management API
Java, Spring Boot, Spring Data JPA, H2

- REST API with CRUD operations, SKU validation, and stock adjustment with negative stock prevention
- Search and filter system by SKU and category with low-stock tracking for consumable items
- Inventory statistics endpoints calculating total value and quantity across all products
- Custom error handling with descriptive messages and integration tests