

# Ryan Josh R. Villaluz

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[GitHub](#)

## SUMMARY

Software Developer with a solid background in building full-stack applications using Python, JavaScript, and C++. Developed real-time testing platforms and scalable backend systems while collaborating closely with cross-functional teams in Agile sprints. Proven ability to analyze user requirements, design robust data models, and support continuous integration in both front- and back-end components.

## EDUCATION

**East Carolina University – Greenville, NC**

**Aug 2020 - May 2025**

*B.S., Software Engineering*

- **Coursework:** Focused on full-stack software development, system design, database architecture, Built RESTful APIs and backend services using Django and MySQL, Applied Agile methodologies across academic and capstone projects

## EXPERIENCE

**NC Early Math Placement Testing Project**

**Aug 2024 - May 2025**

*Software Developer*

*Greenville, NC*

- Engineered a real-time testing platform using Django and PostgreSQL, adhering to industry coding standards and incorporating user requirements throughout development.
- Integrated authentication workflows using Teacher ID and test session confirmations while collaborating with team members to refine system functionality.
- Designed scalable data models for managing exams and user sessions, ensuring data integrity across various OS platforms and database systems.
- Contributed to both backend (Python) and frontend (JavaScript, HTML, CSS) components, participating actively in sprint cycles and maintaining detailed system documentation.

**Smart Gym Application**

**Jan 2025 - May 2025**

*Software Developer*

*Greenville, NC*

- Conceptualized and implemented milestone notifications for user fitness goals using Firebase and Node.js, aligning with Agile development practices.
- Developed secure social sharing features for fitness stats via a React frontend, ensuring comprehensive user requirement analysis and documentation.
- Migrated backend architecture from SQLite to MySQL for enhanced scalability, utilizing modern development tools and maintaining code repository integrity with GIT and Subversion.

## TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, SQL, C, C++, Typescript, Golang
- **Frameworks:** Django, React, Node.js, React Native
- **Web Technologies:** HTML, CSS, REST APIs
- **Databases:** PostgreSQL, PGAdmin
- **Tools & Platforms:** Visual Studio Code, PyCharm, Jupyter Notebook, IntelliJ IDEA, Docker, AWS, VMware, VBox, Android SDK, GIT, Subversion (SVN), Modern Development Tools
- **Methodologies & Education:** Software Development Life Cycle (SDLC), Object-Oriented Analysis/Design (OOA/OOD/OOP), Degree in Computer Science