

Anilov Villanueva

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EDUCATION

University of Florida, College of Engineering

Gainesville, FL

Bachelor of Arts in Computer Science, Minor in Statistics | **GPA: 3.7**

May 2027

Relevant Courses: Data Structures & Algorithms, Computer Organization, Intro to Software Engineering

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Java, HTML/CSS, SQL

Frameworks and Libraries: React, Node.js, Next.js, Firebase, Supabase

Developer Tools: Docker, Git, VS Code, PyCharm, CLion, MySQL Workbench, Insomnia

PROJECTS

Study Buddy | *Chrome API's (Manifest V3), Next.js, JavaScript, HTML/CSS*

June 2025 – Present

- Increased focus session adherence by **25%** in pilot testing by building a Pomodoro, tasks, and site-blocking Chrome extension with chrome.alarms, storage, and scripting APIs.
- Boosted task completion rate by **30%** through real-time progress tracking with badge notifications and a responsive vanilla CSS UI.
- Reduced setup time by **40%** by persisting settings and usage stats with Chrome storage and automated feature injection via content scripts
- Eliminated environment drift during peer testing by containerizing builds with **Docker** for one-command deployments.

Task Scheduling App (Swampy) | *Next.js, JavaScript, Docker, HTML/CSS*

July 2025 – August 2025

- Built a scheduling system handling **1,000+** tasks/day by implementing a custom min-heap for rapid conflict resolution, reducing scheduling conflicts by **60%**.
- Improved task lookup speed by **80%** with a hash-map for constant-time retrieval, compared to naive search methods.
- Increased development velocity by **20%** through Agile practices like sprint planning and iterative testing, cutting feature delivery delays.

Real-Time Chat Application (Gossip Grid) | *JavaScript, React, Firebase*

August 2024 – November 2024

- Built a scalable, real-time messaging app using Firebase backend and React frontend; supported **10+ simultaneous users** in real-time chat
- Optimized UI with React memoization and lazy loading to sustain smooth interactions on mobile, improving time-to-interactive vs. baseline.
- Strengthened security by implementing rules-based access controls and validating inputs, preventing **100%** of unauthorized reads/writes in testing.

Twitter Clone Website | *React, JavaScript, NodeJS, MySQL, Express*

June 2024 – September 2024

- Delivered a full-stack Twitter-like app, stress-tested with **100+** simulated API calls, by implementing session authentication, REST APIs, and relational database modeling.
- Implemented incremental rendering and state management for live timeline updates, reducing perceived load time under network throttling
- Secured CRUD endpoints with parameterized queries and validation, mitigating injection risks in manual tests

EXPERIENCE

Social Lead | *UF Association for Computer Machinery*

January 2025 – Current

- Grew and retained event attendance by welcoming newcomers, mentoring underclassmen, and sustaining active community channels, increasing average attendance by **30%** and boosting repeat participation across monthly events.
- Initiated collaborations with campus clubs and technical organizations to co-host workshops, project nights, and panels, expanding reach and doubling joint events per semester.
- Modeled professional branding through a portfolio showcase and facilitated resume/project reviews, increasing first- and second-year member engagement in projects and internship prep workshops.