Anilov Villanueva

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EDUCATION

University of Florida, College of Engineering — Gainesville, FL
Bachelor of Science in Computer Science | **GPA: 3.8** — May 2028
Relevant Courses: Data Structures and Algorithms, Software Engineering, Computer Organization, Discrete Mathematics, Calculus 3

PROJECTS

Study Buddy | *Chrome API's (Manifest V3), Next.js, JavaScript, HTML/CSS* — June 2025 — Current
* Built a focus/productivity extension with a Pomodoro timer, task list, and site-blocking to reduce distractions.
* Implemented timers and scheduled breaks using `chrome.alarms`; surfaced progress via badge text and `notifications`.
* Persisted settings and usage stats with `chrome.storage`; injected features via `scripting` and content scripts.
* Used an offscreen document for reliable audio/alerts without a visible tab; designed a clean, responsive UI with vanilla CSS
* Published on Chrome Web Store with clear single-purpose and privacy practices documentation.

Task Scheduling App (Swampy Scheduler) — *Next.js, JavScript, Docker* — July 2025 — August 2025
* Engineered a smart scheduling system that efficiently prioritized tasks by urgency using a custom-built **min-heap**, enabling rapid conflict resolution even as task volume scaled
* Designed a **hash map** for constant-time task retrieval by date, improving lookup speed by over **80%** compared to naive search methods
* Built with **Next.js** and styled with Tailwind CSS for responsive, user-friendly design; deployed using Docker for consistent cross-platform operation
* Collaborated in a team of 3, maintaining version control and documentation in a public GitHub repository under **GNU GPLv3 license**

Real-time Chat Application (Gossip Grid) — *React, JavaScript, Firebase* — January 2025 — March 2025
* Built a scalable, real-time messaging app using Firebase backend and React frontend; supported **10+ simultaneous users** in real-time chat
* Designed an intuitive, user-friendly interface with **React** and **Tailwind CSS**, optimizing performance and ensuring mobile responsiveness.
* Integrated Firebase Authentication for secure user login, allowing for scalable and customizable user management

Twitter Clone Website | *React, JavaScript, NodeJS, MySQL, Express* — August 2024 — September 2024
* Developed a full-stack, Twitter(X)-inspired web application with user authentication, dynamic content updates, and database integration
* Utilized MERN stack with SQL: **JavaScript**, **React**, **NodeJS**, **Express**, and **SQL** to build a responsive and interactive user interface
* Focused on enhancing technical skills in back-end and front-end development, state management, and **REST APIs**

EXPERIENCE

Officer - Social Lead | *UF Association for Computing Machinery* — August 2024 - Present
* Developed and deployed a personal portfolio website to showcase projects and skills
* Participated in technical and professional development workshops, enhancing software engineering skills

Lifeguard — March 2022 — January 2024
Orange County Parks — *Apopka, Florida*
* Collaborated with fellow lifeguards in order to ensure a cohesive and efficient operation monitoring the river
* Assessed and coached lifeguards as Lead Instructor, resulting in a 40% increase in passing rates

EXTRACURRICULAR

Member | *UF Open Source Club* — August 2024 - Present
* Contributed towards developing a proximity chat app utilizing, Firebase, React, and NodeJS
* Developing mini drones equipped with AI-integrated cameras for autonomous surveillance and data collection

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, HTML/CSS, SQL
Frameworks and Libraries: React, Node.js, Next.js, Firebase, Supabase
Tools and Platforms: Docker, Git, VS Code, PyCharm, CLion, MySQL Workbench, Insomnia