Jesus Villanueva-Segovia

jesusvillanuevasegovia@gmail.com | linkedin.com/in/JesusV-S | github.com/chromody

EDUCATION

Bachelor of Science in Computer Science   Tennessee Technological University
GPA: 3.97   *Aug. 2021 – May 2025*

EXPERIENCE

iCube Programmer   *Tennessee Technological University*   *Aug. 2024 – May 2025*
- Lead Developer for Empower UC's mobile app: a Next.js application, created to assist underprivileged communities.
- Engineered an Electric-Eel-Triggered Social Media Feed to boost user interaction and engagement.
- Collaborated with cross-functional teams to manage and integrate databases for enhanced user experience.

University Scholarship Tutor   *Tennessee Technological University*   *Aug. 2021 – May 2024*
- Tutored an average of 5 students weekly in Mathematics and Computer Science; Covered these topics: college math up to Calc 2, intro to problem solving, data structures and algorithms, etc
- Customized lessons for students of diverse backgrounds and experience levels, improving retention and learning.
- Consistently received positive feedback for providing clear explanations and guidance.

Warehouse Laborer   *CBC Group Co.*   *May. 2023 – July. 2023*
- Streamlined inventory management by leveraging old warehouse software to track orders, packages, and work time.
- Trained and mentored new hires, improving team efficiency and operational success.
- Handled high-pressure situations effectively, ensuring smooth workflow during peak periods.

PROJECTS

Empower Project (Co-lead)   *iCube*
- Co-led the Empower App initiative with AGILE methodologies, delivering valuable services for UC.
- Developed our mobile app using Next.js and MongoDB; Including but not limited to: setting up githhub repo, setting up our Next.js and Mongo project, implemented wireframes, added functionality for MVP, etc.
- Ensured project deadlines were met while upholding high-quality coding standards.

Web Harness/Mangrove (Navsea Dahlgren)   *Tennessee Technological University*
- Worked within a team to develop an application that aims for a secure and easy way to manage applications.
- Used React along with Hope UI and Bootstrap to develop a website that delivers a smooth experience.
- Used Rust, Rusqlite, and Utoipa to develop a website backend that delivers high-quality and secure functionality.
- Designed and implemented database schema with sqlcipher while ensuring security compliance for Navsea standards.

Electric Eel Threader   *iCube/Tennessee Aquarium*
- Designed and implemented a system enabling an electric eel to trigger automated posts on Threads.
- Set up and programmed Raspberry Pi to take in audio feed and apply conditional logic to trigger a post; Implemented with Python, Google APIs, Meta APIs, and Integromat.
- Worked with Tennessee Aquarium and the iCube to install this system at one of their sites.

Bakery Management Website   *Tennessee Technological University*
- Collaborated on designing and building a bakery management website using .NET, EF, and Vue.js
- Created RESTful APIs, integrating key functionality to improve business operations.
- Rapidly developed and deployed multiple Vue.js pages under tight deadlines, ensuring high-quality and responsive user interfaces.

tnroadsafetystandards.org   *iCube*
- Contributed to website features and maintenance, managing data integration to ensure high performance, etc.

SKILLS

Languages: HTML/Javascript/CSS, Rust, Python, C++/C#/C
Frameworks/Language Tools/Database: React, Next.js, Vue.js, Node.js, Mongoose(Node.js), Bootstrap, Tailwind, Jquery, Rocket(Rust), Utoipa(Rust), Rusqlite(Rust), .NET, Entity Framework, SQL(MySql), Sqlite, NoSQL(MongoDB), Git