Bryan Aneyro Hernandez

Houston, Texas, 77038

📞 954-297-1787   ✉ brah0211@outlook.com   in linkedin.com/in/bryananeyro   ⬤ github.com/Asere231   🌐 bitbybryan.com

Summary

Recent Computer Science graduate with a strong foundation in algorithms, data structures, and backend development. Skilled in building scalable web services, REST APIs, and full-stack applications using Java, Python, Node.js, and MongoDB. Proven ability to work in Agile teams, solve complex problems, and deliver production-grade software.

Actively seeking Software Engineer or Backend Developer roles to contribute to innovative, mission-driven teams.

Education

University of Central Florida   **Aug. 2021 – May 2025**
Bachelor of Science in Computer Science   *GPA: 3.476*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Senior Design I and II
- OOP Java (Java_OOP)
- Robot Vision (Robot-Vision)
- Enterprise Computing (Enterprise-Computing)
- System Software (PL-0-Compiler)

Projects

PL/0 Compiler | *C, Compiler Design* | Repository: PL-0-Compiler
- Collaborated on building a four-module compiler for the PL/0 language targeting a virtual machine.
- Designed and implemented lexical analysis, parsing, and code generation from scratch using C.
- Gained deep understanding of symbol tables, grammar parsing, and runtime environments.

GroupFinder | *MERN Stack, Flutter* | Repository: GroupFinder
- Contributed to the development of a web and mobile app to help students find and join real-time study groups in the university library.
- Developed full-stack study group platform for students to coordinate in real-time using Flutter and MERN stack.
- Designed RESTful backend in Node.js/Express, integrated MongoDB with Mongoose, and implemented JWT-based auth.
- Enabled interactive map-based UI to join/create study groups with socket updates; deployed on Android and Web.

Bit by Bryan (Personal Portfolio Website) | *Next.js, Tailwind CSS, React, GSAP* | Repository: my-portfolio
- Created a personal portfolio with Next.js and Tailwind CSS to highlight projects and resume; deployed via Vercel.
- Enhanced UX with GSAP and Framer Motion animations and mobile responsiveness.
- Implemented custom carousel for project display and stylized navigation with GooeyNav and BlurText components.

Neural Networks & CNN Training | *Python, PyTorch, Jupyter Notebook* | Repository: Robot-Vision
- Built and trained deep learning models using PyTorch for image classification tasks on MNIST and CIFAR-10 datasets.
- Built and tested shallow and deep neural nets with various architectures and activations.
- Trained CNNs with varied filter sizes and settings; compared learning rates and epochs.
- Visualized loss and accuracy metrics during training to analyze model behavior and effectiveness.

RE-RASSOR: New Arm (Senior Design) | *ROS2, Gazebo, MoveIt2, Python, Ubuntu*
- Contributed to the development of a robotic arm with 4 joints for a lunar rover in a year-long senior design project.
- Helped simulate and control robotic motion using Gazebo and MoveIt2, integrating URDF/Xacro robot descriptions.
- Implemented ROS2 nodes in Python and C++ to manage inverse kinematics, joint actuation, and trajectory planning.
- Worked collaboratively within a multidisciplinary team to integrate the arm into a full robotic rover system and validate performance in simulation.

Technical Skills

Languages: Java, Python, C, JavaScript, HTML5, CSS3
Frameworks / Libraries: Node.js, Express.js, React.js, Next.js, JavaFX, Tailwind CSS, Bootstrap, PyTorch
Developer Tools: GitHub, Docker, VS Code, Postman, Ubuntu, Jupyter Notebook
Backend / DevOps: REST APIs, MongoDB, MySQL, JWT Auth, Vercel
Other: Agile, Scrum, Unit Testing

Certificates

- ROS2 For Beginners (Level 1, 2, 3)