

BRUNO FREGOSO FRIAS

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EDUCATION

University of Central Florida

Bachelor of Science in Computer Science, GPA: 3.9

Orlando, FL

May 2026

EXPERIENCE

Software Engineer Intern

August 2025 – Present

Ubicquia

Ft. Lauderdale, FL

- Deployed Beta version of Full-Stack application, developing Laravel APIs and React to support 45 Hub installations
- Designed End-to-End feature to audit installation sites, using PostgreSQL and Laravel APIs, reduced the number of re-route requests
- Optimized installation flow from initial release, engineered PHP APIs to automate retrieval of device metadata, improved installation time from 60 minutes to 20 minutes
- Built microservice for install confirmations with Java Springboot customer, approval times completed 2x as fast

Software Engineer Intern

May 2025 – August 2025

Ubicquia

Ft. Lauderdale, FL

- Built an internal testing GUI with Javascript Electron, expanded product testing accross non-technical teams
- Implemented a Redis-based caching layer, reduced median response time for problematic API call from 2s to 400ms
- Deployed Alpha version of full-stack application, established Laravel APIs and React UI, completed 25 installations

Undergraduate Research Assistant

February 2024 – May 2024

University of Central Florida

Orlando, FL

- Clustered 17,000+ single-cell RNA-seq profiles using Python and ScanPy, identified 10+ cellular subtypes
- Trained machine learning classifier using Python ScanPy to distinguish neuronal subtypes in the temporal lobe
- Presented data to graduate students to identify 8 biomarkers in the dataset for the kidney tissue

PROJECTS

Radioclub | NextJS, Typescript, React, PostgreSQL, Docker, Go

September 2024 – Present

- Built CI/CD pipeline with GitHub actions, increased frequency of deployments and automated code coverage
- Enabled users to sync playlists, compare stats, and combine music across platforms, generated 80+ playlists
- Implemented local testing environments with Docker to automate database, sped up API development
- Designed Database modal in PostgreSQL to map relations between users, playlists, and songs
- Created REST API with Go to create, read, update, and delete from our database

Fitknights | React, Express, MongoDB, Node.js, Redis

November 2024 – December 2024

- Engineered full-stack web app with React, Express, and MongoDB for users to create or join fitness challenges
- Developed a REST API using Express and Mongoose, supporting user's ability to create or join challenges
- Created seeder scripts in Javascript to populate the database with system created challenges
- Leveraged Redis for leaderboard feature, allowing users to compete with their friends

LEADERSHIP

Hackathon Organizer

May 2024 – May 2025

Knight Hacks

Orlando, FL

- Organized event with 547 total hackers, including 406 under-represented groups, and 359 first time hackers
- Led company sponsor reach-outs to establish student-industry engagement, achieved record budget of 31,000
- Collaborated with cyber-security club to co-host a cyber challenge, brought in an additional 137 hackers

SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS, Typescript, PHP, Go

Frameworks: React, Node.js, Express, NextJS, Laravel, Electron, Springboot

Developer Tools: Git, Docker, GitHub Actions, PostgreSQL, MongoDB, Playwright, AWS, Linux, Redis