CRYSTAL TRAN

Durham, NC | (919)-699-0967 | c.t.tran95@gmail.com | LinkedIn | Github | Website

TECHNICAL SKILLS

Languages: Python, Javascript, Typescript, SQL, CSS, SASS, HTML, Markdown
Libraries: React, React Testing Library, jQuery, SQLAlchemy
Frameworks / Tools: Node.js, Express, Flask, Django, PostgreSQL, MySQL Vitest, Jest, Jasmine, unittest, Git, AWS

SOFTWARE ENGINEER EXPERIENCE

Software Engineer Intern   February 2024
Rithm School   *Remote Work*
- Developed an announcement application using **Django** context processors to make the announcement globally available to all templates
- Maintained **99% test coverage** by writing new tests, and streamlined testing with model factories and Django's factory_boy
- Automated a sprint pairing application, leveraging the stable roommate algorithm to find stable pairings, and **jQuery** to create a drag-and-drop interface to select preferences
- Participated in daily stand-ups and worked on an **81,000-line** in-production codebase involving **Agile methodologie**s, pull requests, git merge conflicts, and debugging

TECHNICAL PROJECTS

Warbler   Live Demo | Github
- Engineered a security-focused Twitter clone application using **Python** and **Flask** for RESTful API routing, **PostgreSQL** for database management, and **WTForms** for form validation
- Addressed security vulnerabilities in a legacy codebase by implementing CSRF tokens and Flask sessions to protect user-specific routes

ShareBnB   Live Demo | Github
- Utilized **Flask** for server-side routing and **Jinja** integration to expedite the development of a full-stack home rental application
- Integrated **AWS S3** in the database to optimize file management and reduce database load

Jobly   Live Demo | Github
- Developed a full stack job board site utilizing **React** for modular UI components, and **Express** and **Node.js** for middleware and server-side routing
- Designed a **RESTful JSON API** backend with Express Router while employing **test-driven development**

ADDITIONAL WORK EXPERIENCE

Clinical Laboratory Associate II   March 2022 - September 2023
Grail   *Durham, NC*
- Collaborated with software engineers to improve a LIMS application responsible for sample tracking
- Tested LIMs software in a test development and production environment

Manufacturing Associate IV   June 2019 - March 2022
Biogen   *Morrisiville, NC*
- Oversaw a new drug campaign which involved water batching, testing automation, scheduling, supervising daily operations, stand-ups, troubleshooting quality issues, and creating SOPs and BPRs
- Trained operators on workflow and manufacturing processes

EDUCATION

Rithm School   November 2023 - March 2024
Full Stack Web Development Bootcamp

Appalachian State University   September 2014 - May 2019
Bachelors of Science in Cellular / Molecular Biology, Minor in Chemistry