

Felix Fernandez

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EXPERIENCE

Full Stack Developer (Computer Programmer)

Sep. 2019 - Present

Southern Connecticut State University | 501 Crescent St, New Haven, CT 06515

Responsible for programming and updating web apps, department website(s), applications, and databases. Restructuring and re-designing the web apps to the database. Create and edit forms to be uploaded on various servers and/or websites. Projects include restructuring all systems including website, web apps, and staff portal databases.

Consolidated 12 databases into one comprehensive database to optimize workflow and application maintenance.

- ✓ Some of their web apps are:
 - the “hall sign-in system” used for guest access control in the residence halls,
 - program portal where all their programs are denied or approved to be done it’s also where they approve or deny their programs(events) funding.
 - Student sign-in system where students sign into different buildings also where they check in their guests, it checks the guest info using their id and checks if the guest stayed longer than allowed.
 - Hall director backend, hall directors check everything that has been signing in or out and its uses, equipment, overnight stays, timeclock, package, keys, and failed sign-outs.
 - SAP, where staff can hire, fire, and look up employees’ information and what they are allowed to interact with.
 - Etc....
- ✓ Moved our system to a new server.
- ✓ Made their new res-life homepage.
- ✓ In charge of all res-life design webpages. Responsible for the design of front and backend systems.
- ✓ Creating Cron Jobs request. Automating functions to run every day. Restructured all res-life systems (controllers, models, view)
- ✓ Remade the database schema.
- ✓ In charge of the front and back end of the websites for day-to-day operations.
- ✓ Built a fully functional developer instance for developers to test without touching the live sites.
- ✓ Made a backup to the system on GitHub.

Currently the team leader of the developers in this department.

KEY SKILLS

- Knowledge of current Internet standards including web browsers and browser specifications Ability to program using PHP, HTML, XHTML, CSS, JavaScript, and React.
- Familiarity with MVC (Model View Controller) frameworks, especially CodeIgniter and Drupal Familiarity with database programs such as MySQL, Workbench, and PhpMyAdmin,
- Experience managing website content using tools like WinSCP, Putty, and Virtual Box Ability to learn new Internet and authoring technologies relevant to website development Strong background in one or more operating systems [Windows, Mac, and UNIX (Linux)]
- Understand dynamic or active web content and the use of SQL-like languages.
- Working knowledge of networking technologies including security and encryption on the Internet and basic

networking concepts.

- Effective verbal and written communication skills and the ability to interact professionally with a diverse group of users and support staff.

EDUCATION

Southern Connecticut State University | Bachelor of Science in Computer Science Expected. Dec 2022

- Math minor
- CS tutor

UCONN | Bachelor of Engineering in Mechanical Engineering

From. 2018 - 2019

- Math minor
- CS minor
- Computer Science Club, Club encourages CS students to talk about new concepts they learned and technical problems they were having trouble solving. Members of the club were assigned two problems every week to solve and share.

PROJECTS

- **Air Message**
 - Built a python chat room encrypted end to end where users can make a username to identify and join a room with a room number that identifies the room they then can talk to other users in that room. Instant messaging web application using Flask (Python web development framework), and Socket.io for real-time socket package transfers the goal is to not allow packet capture software like Wireshark to capture the network packets.
 - Built using python Flask and Socket IO.
- **Daycare system**
 - Built a website where parents can go in register/sign in giving a way to contact them and register their children for daycare fill in all the information for their kids and a way to contact the employee in charge of their child employees can also register/sign in to select when they can work, and the system will then give them the kids available to take care of and they have access to those kids information only as well as the parent's information to contact them.
 - Built using HTML, CSS, PHP, JavaScript
- **360 Tour**
 - This will be a virtual tour of the universities' campus in 360 so it feels like you are walking across campus.
 - React app, with the use of other technologies.
- **Collaborative Information Center**
 - This app(website) lets the user register and must verify email after, the employer gets to create a job listing for employees to apply to and there's an email notifying them of everything as well as the employer can see all the employee's information.
- **Card App**
 - Built the app for the University of Southern Connecticut State University to keep track of the temporary ID cards they give out to residents who live on campus or students who are simply having trouble with their ID and will be given a temporary ID until their issues are fixed.

SKILLS

| Python | C# | Java | PHP | JS | AWS DynamoDB | SQL Alchemy | MySQL | MSSQL | AWS | CodeIgniter |
| Building and using API | React | Python Flask | Problem Solver | Critical Thinker | Bilingual | Spanish |