

# Felix Fernandez

203-691-0817 • Hamden CT 06514 • [f99.fernandez@gmail.com](mailto:f99.fernandez@gmail.com)  
[LinkedIn](#) • [GitHub](#) • [My-Website](#)

## EXPERIENCE

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### Full Stack Developer (Computer Programmer)

Sep. 2019 - Present

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

Responsible for programming and updating all their web-apps and department website(s), applications, and databases. As well as re-structuring and re-designing all their systems from websites to we-apps to their database. Create and edit forms to be uploaded on various servers and/or websites.

Single handily re-structured and re-design their database to make it easier to use and update for the future they had a lot of different web-apps not connecting and now everything is under one database.

- ✓ 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-in to different building also where they check in their guest, it checks the guest info using their id and it check if the guest stayed longer then allowed.
    - Hall director backend, hall directors check everything that has been sign in or out and its uses, equipment, overnight stays, timeclock, package, keys, failed sign-outs.
    - SAP, where staff can hire, fire, and look up employee’s 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 design for front and backend system.
  - ✓ Creating Cron Jobs request. Automating functions to run every day. Restructured all res-life system (controllers, models, view)
  - ✓ Remade the database schema.
  - ✓ In charge of 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, 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 for 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

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

- Math minor

**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

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- 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 give 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 and 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 user register, must verify email after, then employer gets to create job listing for employees to apply to and there's email notifying them of everything as well as the employer can see all the employee's information.

## SKILLS

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| Python | C# | Java | AWS DynamoDB | SQL Alchemy | all SQL | AWS | AWS Lambda |  
| Building and using API | React | Python Flask | Problem Solver | Critical Thinker | Bilingual | Spanish |