

Patrick Mendus – Software Engineer

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Objective

To obtain an entry level Software Engineer position that enables me to build and nurture my programming skills and allows me to utilize my abilities in a collaborative environment.

Technical Skills and Projects

PROJECT: DJANGO ADVERTISING DIRECTORY

- Summary: I was hired by my professor to continue to develop an advertising directory web app that I had started as a class project for Washington State Parks. The directory takes listings ordered by advertisers and displays them in a directory format with information about each listing. The ad directory was originally a RESTful web application with a JavaScript Front End, Java Back End, and MongoDB for persistence which I developed as part of an Agile team of four. After working on the project outside of class, I determined that Python Django was a much better fit for the application, and rewrote the Back End in Python while migrating the Front End to use Django's templating system.
- Languages: Python, JavaScript, HTML, CSS, Java
- Skills, Tools, and Frameworks: Python Django, SQLite, SASS, RESTful Web Development, Code Migration, Object-Oriented JavaScript, Agile Software Development, UI/UX Implementation, Single Page Application Development

PROJECT: VIBES MOBILE WALLET

- Summary: I worked with a team of six developing Vibes Mobile Wallet application that integrated coupons with both Android Pay and Google Wallet. I had the same responsibilities as the other developers on the team, working in an Agile environment and completing stories as needed. My work included UI/UX development, API implementation, and security testing.
- Languages: Ruby on Rails, HTML, CSS, JavaScript
- Skills, Tools, and Frameworks: Ruby, Rails, ActiveRecord, ReactJS, Backbone, Handlebars, SASS, PostgreSQL, MySQL, Agile Development with Jira and GitLab, Test Driven Development, Behavior Driven Development, Iterative Workflow

PROJECT: CATERING SERVICE

- Summary: I was tasked with creating a RESTful web application to manage a catering service. The application handled taking and scheduling orders, pricing and displaying menu options, and collecting customer and sales information.
- Languages: Java
- Skills, Tools, and Frameworks: JUnit testing, RESTful Web Development, Gradle Deployment Software, Full-Stack Development.

PROJECT: XV6

- Summary: I worked on improving the educational Operating System XV6, created by MIT scholars, to implement more efficient scheduling algorithms, improve on the file system, and add syscalls that monitored the resources used by the OS.
- Languages: x86, C, Python
- Skills, Tools, and Frameworks: BitBucket and Git repository use, VirtualBox, Linux gcc, Vagrant.

Experience

FULL STACK SOFTWARE ENGINEER | THESLEEPLESS INC. | JANUARY 2017 - CURRENT

- I've continued to work in a professional capacity on the Advertising Directory project created in a graduate Software Engineering class with my professor, Virgil Bistriceanu. I work as a Full Stack Software Engineer on this project using Python Django, JavaScript, HTML, and CSS.

COMPUTER SCIENCE INSTRUCTOR | WESTMORELAND COUNTY COMMUNITY COLLEGE | SPRING 2015 - CURRENT

- I teach online JavaScript classes to students of Westmoreland County Community College.

SOFTWARE ENGINEER INTERN | VIBES MOBILE MARKETING SOLUTIONS | MAY 2017 – DECEMBER 2017

- I had a six-month internship working along side other developers on several large Ruby on Rails applications in a Test-Driven, Agile environment.

PROFESSIONAL TUTOR | WESTMORELAND COUNTY COMMUNITY COLLEGE | SPRING 2013 – SUMMER 2015

- I was a professional tutor for all computer science, web development, graphic design, drafting, and electronics classes. I regularly tutored up to 10 students in one-on-one sessions, including students with learning disabilities or special needs.

HEAD OF IT, HEAD LIBRARIAN, ASSISTANT PRINCIPAL, TEACHER | FUZHOU LAKESIDE INTERNATIONAL SCHOOL | SUMMER 2012 – SPRING 2013

- I was one of 10 American teachers hired to start a new school in Fuzhou, China. In addition to various teaching positions in the humanities, computer science, and music, I also performed the duties of Acting Principle after our school's principal suffered health problems, and then Assistant Principal upon her return.

Education

MASTER OF SCIENCE | SPRING 2018 | ILLINOIS INSTITUTE OF TECHNOLOGY

- Major: Computer Science
- Related coursework: Introduction to Advanced Studies I (Data Structures), Introduction to Advanced Studies II (Computer Architecture), Operating Systems, Object-Oriented Design and Programming, Database Organization, Computer Graphics, Introduction to Algorithms, Software Engineering I, Software Systems Architectures, Design and Analysis of Algorithms, Object-Oriented Analysis and Design, Biometrics, Software Project Management, Geospatial Vision and Visualization, Cloud Computing.

ASSOCIATE OF APPLIED SCIENCE | SUMMER 2015 | WESTMORELAND COUNTY COMMUNITY COLLEGE

- Major: Computer Technology – Programming for the Enterprise, Web Publishing
- Minor: Database Application, Programming, Web Development, Web Applications
- Related coursework: C++ Programming, Visual Basic I, Visual Basic II, Java Programming II, Systems Analysis and Design, HTML and CSS, JavaScript, Dreamweaver Advanced, Interactive Design, Social Media in Business

BACHELOR OF ARTS | SUMMER 2012 | SAINT VINCENT COLLEGE

- Major: History
- Minor: Chinese Studies