

Justin Irazabal

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EDUCATION

University of Delaware, Newark, DE

December 2018

Bachelor of Science, College of Engineering

Major: *Computer Science*

Selected Coursework: Data Structures & Algorithms, Database Systems, Advanced Web Technologies, Artificial Intelligence, Advanced Software Engineering, Parallel Programming, Secure Software Design

SKILLS

- Programming Languages: Python, Java, JavaScript, C, C++, TypeScript, PL/SQL
- Tools/Frameworks: GitHub, VS Code, Bash, Zsh, Linux, Maven, Jira, AWS, EC2, Apache Spark, ORACLE
- Web Tools: Angular, Postman, HTML, CSS, jQuery, Bootstrap, XML, JSON, Node.js, MongoDB
- Methodologies/Techniques: Agile, Pair Programming, Scrum, MVC
- Spoken Languages: English, Spanish
- Outstanding communication and collaboration skills, thrives working in a team environment

EXPERIENCE

University of Delaware, Newark, DE

August 2016 - Present

Teaching Assistant, Computer Science Dept.

- Taught Python and Java to over 600 students using my custom curriculum and programming exercises
- Created a syllabus focused on core object-oriented programming concepts including inheritance, encapsulation, polymorphism. Extended this to the use of data structures and algorithms
- Introduced pair programming as an agile technique for effective and efficient development in a collaborative environment

National Estuarine Research Reserve (NERR), Newark, DE

Feb 2017- May 2017

- Collaborated with Delaware NERR and developed three games to be put on an interactive display for children in Delaware marine research centers
- Applied fundamental software engineering principles using Model-View-Controller (MVC) design in Java and facilitated completion of three consolidated, organized projects
- Assumed role of team leader and led to efficient development of project during coding phase using Agile and Scrum methodologies

RELEVANT COURSE PROJECTS

Advanced Web Technologies, Group Project

October 2018

- Led a team of six developers to design and build a hybrid Wikipedia/Reddit website for University of Delaware courses where students could sign up using Auth0 and comment on courses or professors and leave tips about the course for other students
- Spearheaded the team decision to use MongoDB and Node.js as the back-end and Angular 7 framework as the front-end which resulted in a modern, maintainable, and well-documented final product

Advanced Software Engineering, Group Project

September 2018

- Developed the back-end API, server, and front-end from the ground up to replace the existing tool that over 50 faculty at the University of Delaware used to administer exams to their students
- Deployed internal website, written using Angular, HTML, and TypeScript which allowed instructors to upload exam questions to a MongoDB database, add tags for categorization, and generate full exams

Secure Software Design, Personal Project

September 2018

- Designed and implemented a Tweet Bot using Markov Chains in C++ by ingesting a file or Twitter handle and printing a Tweet based on language structure of aforementioned file

ACTIVITIES / INTERESTS

- Disciplined martial artist with over 10 years of training and a black belt in Kung Fu
- Volunteered as an instructor to teach structured sessions of martial arts classes to over 50 people
- Creating mobile applications and learning new tools for development