

Justin Irazabal

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EDUCATION

University of Delaware, Newark, DE
Bachelor of Science, College of Engineering
Major: Computer Science

December 2018

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, C, C++, HTML, CSS, JavaScript, Node.js, PL/SQL, Angular
- Computer: Debugging, GitHub, Android, iOS, Linux, Bash Command Line, ORACLE, MongoDB, Jira
- Spoken Languages: English, Spanish
- Strong collaborative, communicative, and problem solving skills
- Skilled in critical thinking, logic, and decision making

EXPERIENCE

University of Delaware, Newark, DE
Teaching Assistant, Computer Science Dept.

August 2016 - Present

- Administered and taught various lab sections in Python and Java consisting of over 600 students
- Reinforced concepts such as object-oriented programming, data structures, and polymorphism
- Employed paired programming techniques to promote learning in a cooperative environment

RELEVANT COURSE PROJECTS

Advanced Software Engineering, Group Project September 2018
• Developed backend API, using Node.js, of an exam server for the Computer Science Department at the University of Delaware

- Created internal website in HTML and CSS which allowed instructors to upload their own exam questions to a MongoDB database and add tags to help categorize data

Secure Software Design, Personal Project September 2018
• Designed and implemented Markov Chain Generator in C++ that ingested a text file and printed a Tweet based on the language structure of said file

Parallel Programming, Personal Project April 2018
• Enhanced data processing code to run 87% faster by utilizing Apache Spark and Python

Computer Networks, Personal Project November 2017
• Created a chat bot using UDP protocol with client-server processing coded entirely in Python using a variety of API's and bash command line

Software Engineering, Group Project Feb 2017- May 2017
• Collaborated with Delaware NERR (National Estuarine Research Reserve) and developed three games to be put on display for children in Delaware research centers
• Applied core software engineering principles using Model-View-Controller design in Java that facilitated the 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

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
- Enabling debugging mode on Android to root and unlock firmware for superuser permissions
- Creating mobile applications and learning new tools for development