David Kaler

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GitHub: https://github.com/dikaler , GitHub Pages: https://dikaler.github.io/
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Education

LOYOLA UNIVERSITY MARYLAND   Baltimore, MD
B.S.E, Computer Engineering, 3.65 GPA   May 2023
Clubs: Engineering Club, Robotics Club
Honors: Deans List (Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022)
Relevant Course Work: Object-Oriented Programming, Computer Architecture, Communication Systems, Linear Circuit Analysis, Signals and Systems, Electronics, Digital Logic, Linear Algebra, Calculus III, VLSI Design

STUDY ABROAD   Dubai, UAE
American University Dubai, coursework in Computer Engineering   January 2022 – April 2022

Experience

BAE SYSTEMS   Greenlawn, New York
SOFTWARE ENGINEER - TECHNICAL INTERN III   June 2022 – August 2022
- Reduced software turnover document processing time by 60% by developing and deploying a company-wide internal web server
- Employed front-end technologies (HTML, CSS, Bootstrap, JavaScript, Ajax), and back-end technologies (Pyscript, APIs, NodeJS, PHP) to enable out 3+ features that enhanced site functionality
- Designed and implemented web scraping APIs to extract and integrate essential data into the turnover documents
- Created a highly efficient database abstraction layer using PostgreSQL and a Flask server, enabling seamless CRUD operations
- Demonstrated excellent documentation skills and teamwork through Agile project management and daily scrums in addition to delivering over 12 progress reports and conducting 5 demos

AMERICAN UNIVERSITY DUBAI   Dubai, UAE
PYTHON WORKSHOP LEADER   January 2022 – April 2022
- Led semester-long workshops, aimed at helping more than 30 proficient C++ students learn Python.
- Showcased expertise in teaching 4 essential Python libraries used for data analysis: NumPy, Matplotlib, Pandas, and SciPy
- Instructed students on 6 crucial Object-Oriented Programming concepts: Classes, Objects, Inheritance, Encapsulation, Data Abstraction, and Polymorphism

MOUNT SINAI SOUTH NASSAU HOSPITAL   Oceanside, New York
IT Intern   July 2021 – August 2021
- Imaged and re-imaged computers for employee use,
- Assembled PCs and optimized 20+ workstations for peak performance
- Demonstrated proficiency in handling server rooms tasks, including wiring and resetting servers
- Resolved over 95% of hardware and software issues for medical cart computers, minimizing downtime and improving productivity

Projects

JARED'S COMMUNICATION DEVICE
- Capstone Project - Volunteers for Medical Engineering (VME): Programmed a specialized device utilizing the ESP32-LyraT-Mini and optimized existing code to facilitate auditory functions, fostering independence for autistic young man

NBA SCRAPING TOOL
- Created a tool that presents 3 relevant statistics about the user's selected NBA team

PASSWORD VERIFIER
- Produced a password strength evaluation tool that provides real-time feedback regarding 5 requirements as the password is being typed in

ENCODING/DECODING TOOL
- Built an innovative encoding/decoding tool that allows users to pass encoded messages and a list containing alterations

Skills

Software: Python, Java, C#, C++, HTML/CSS, JavaScript, SQL, Object-Oriented Programming, VHDL, Bootstrap, PHP, jQuery, Data Analysis