

# David Kaler

## Software Developer



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## EXPERIENCE

### **Software Engineer - Technical Intern III**

#### **BAE Systems**

06/2022 - 08/2022

Greenlawn, NY

U.S. Subsidiary of BAE Systems PLC, An International Defense, Aerospace and Security Company

- Developed and deployed an internal webserver that will be used across the company, resulting in a significant reduction in the time spent filling out software turnover documents by over 60%
- Proficient in utilizing various front-end technologies such as HTML, CSS (including UIKit and Bootstrap), JavaScript, and Ajax, as well as back-end technologies such as Pyscript, API (including Flask), NodeJS, and PHP
- Created and implemented API's using web scraping techniques to extract and integrate essential data into the turnover documents
- Designed and developed a database abstraction layer using PostgreSQL and Flask server, enabling efficient CRUD operations
- Presented frequent progress reports and conducted demos to showcase the inner workings of the webserver to the team
- Demonstrated excellent documentation skills and teamwork through experience with Agile project management and daily scrums

### **Python Workshop Leader**

#### **American University Dubai**

01/2022 - 04/2022

Dubai, UAE

Private, Academically and Culturally Inclusive Institution of Higher Learning

- Conducted a series of workshops over the course of the semester, aimed at helping students who were proficient in C++ to learn Python.
- Demonstrated proficiency in teaching essential Python libraries used for data analysis, including NumPy, Matplotlib, Pandas, and SciPy
- Taught students important Object-Oriented Programming concepts, such as Classes, Objects, Inheritance, Encapsulation, Data Abstraction, and Polymorphism

### **IT Intern**

#### **Mount Sinai South Nassau Hospital**

07/2021 - 08/2021

Oceanside, NY

Award-winning, Not-for-profit Teaching Hospital

- Imaged and re-imaged computers for employee use
- Assembled PCs and installed desktop set ups
- Experience with wiring and resetting servers in server rooms
- Resolved hardware and software issues for medical cart computers

## EDUCATION

### **Bachelor of Science in Engineering**

#### **Loyola University Maryland**

09/2019 - 05/2023

GPA: 3.65/4.0  
Baltimore, MD

- Specialization: Computer Engineering
- Clubs: Engineering Club, Robotics Club
- Honors: Dean's List (All Semesters)
- Relevant Course Work: FPGA Design, Object-Oriented Programming, Computer Architecture, Communication Systems, Linear Circuit Analysis, Signals and Systems, Electronics, Digital Logic, Linear Algebra, Calculus III,

### **Study Abroad Semester**

#### **American University Dubai**

01/2022 - 04/2022

Dubai, UAE

## SUMMARY

I possess a diverse skill set with a strong proficiency in programming languages such as Python, C++, and JavaScript. I am able to effectively self-manage during independent projects while also collaborating well in a team setting. Additionally, I am committed to continuously learning and adapting to new technologies. Most importantly, I am passionate about programming and committed to delivering high-quality work.

## SKILLS

- Python
- JavaScript
- HTML/CSS
- Object-Oriented Programming
- Java
- C++
- jQuery
- SQL
- Data Analysis
- Documentation/Communication

## PROJECTS

### **NBA Scraping Tool**

The user is providing with several stats pertaining to an NBA team of their choice

### **Jared's Communication Device**

As a part of Senior Design, I worked with the ESP32-LyraT-Mini and reconfigured existing code to perform auditory functions

### **Password Verifier**

The user is providing information, as well as dynamic updates, on the strength of their inputted password

### **Encoding/Decoding Tool**

The user enters a word/phrase to be encoded. To decode it, the user inputs the encoded message and a list containing its shifts