DAVID KALER

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EDUCATION

New York Institute of Technology **January 2024 - December 2024**
Master's, Computer Science

Loyola University Maryland **August 2019 - May 2023**
Bachelor's, Computer Engineering *GPA: 3.65*
- Relevant Courses: Object Oriented Programming, Computer Architecture, Communication Systems, Linear Circuit Analysis,Signals and Systems, Electronics, Digital Logic, Linear Algebra, Calculus III, VLSI Design
  Clubs: Engineering Club, Robotics Club
  Honors: Deans List (Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023)

PROFESSIONAL EXPERIENCE

BAE Systems **Greenlawn, NY, USA**
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 application
- Employed frontend technologies (HTML5, CSS, Bootstrap, JavaScript, Ajax), and backend 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, as well as testing scripts
- Created a highly efficient database abstraction layer using PostgreSQL and a Flask server, ensuring enterprise-level security and enabling seamless CRUD operations
- Demonstrated great communication skills and the ability to work through Agile project management and daily scrums in addition to delivering over 12 progress reports and conducting 5 demos

American University Dubai **Dubai - United Arab Emirates**
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 Python data visualization tools, in addition to 4 essential 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, NY, USA**
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 troubleshooting server rooms tasks, including wiring and resetting servers and network security.
- Resolved over 95% of hardware and software issues for medical cart computers, minimizing downtime and improving productivity

PROJECTS & OUTSIDE EXPERIENCE

Jared's Comunication Device
- Capstone Project - Volunteers for Medical Engineering (VME): Programmed a specialized device utilizing the ESP32-LyraT-Mini, showcasing expertise in embedded systems and integration. Optimized existing source code to facilitate auditory functions, contributing to the independence of a non-verbal autistic young man

Word Search Tool
- The tool utilizes an algorithm to determine if a given word can be formed by sequentially connecting adjacent characters in an m x n grid, while ensuring that each cell is used at most once. The result is displayed through a GUI.

NBA Scraping Tool
- Created a tool that presents 3 relevant statistics and analytics about the user's selected NBA team

Shortest Path Through Obstacles
- This project utilizes Python and Java to perform Bread-First Search to find the shortest path through a grid of obstacles. The result is displayed using each languages respective GUI.

SKILLS & INTERESTS

Skills: Agile, JavaScript, jQuery, Git, Java, C/C++, MySQL, PHP, Postgres, React.js, Python, Django, Flask, Web Development, HTML/CSS, NoSQL, Node.js
Interests: RESTful API, Microservices, Software Development Lifecycle, Scalable Design, Full-Stack,Machine Learning, AWS, CI/CD Pipeline