ZAHMIR JACOBS
SOFTWARE ENGINEER

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CORE COMPETENCIES

✓ **Programming Languages**
- Python
- C
- Javascript
- C++

✓ **Libraries and Frameworks**
- Django
- Typescript
- React.js
- FastAPI
- Node.js

✓ **Databases**
- MongoDB
- MySQL
- PostgresSQL

✓ **Development Tools**
- Docker
- Pandas
- Git
- Numpy
- Linux
- OpenCV
- Jira
- AWS (EC2, Lamba, S3)

✓ **Other**
- Embedded Programming
- Internet of Things
- Digital Design and Fabrication (Solidworks, CorelDraw, 3D printing, laser cutting, CNC machinery, etc.)

EDUCATION

Bunker Hill Community College
Expected Graduation : May 2025
A.S. Electrical Engineering

Resilient Coders
January 2020 - August 2020
Certificate - Web Development

AWARDS

AWS All Builders Welcome Grantee
October 2023

PyData Global Scholar
November 2022

PROFESSIONAL EXPERIENCE

Tristar AI
Software Engineer | April 2023 - January 2024 (Contract)

- Guiding a small team to **design, implement, and maintain pivotal camera systems and feed components**, resulting in an increased client's operational efficiency and productivity.
- Implemented innovative software solutions using **computer vision (OpenCV)**, **AWS**, and **machine learning** contributing to enhanced operational efficiency and streamlined processes
- Swiftly resolving complex challenges through **exceptional troubleshooting**, **debugging skills**, and **efficiently rectifying software defects** to mitigate disruptions in manufacturing processes and safeguard productivity.
- Promoting knowledge sharing by **creating comprehensive technical documentation, including architectural diagrams, user guides, and API documentation**, actively fostering a culture of collaboration, and empowering colleagues to leverage software solutions effectively.

GreenSightAG
Software Development Intern | August 2020 - March 2021

- Engaged as a **key contributor within a dynamic team of four engineers** with diverse backgrounds from the military, NASA, and Fortune 500 companies, collaborating closely to drive successful project outcomes.
- Deployed new UI features for high-profile publicly traded companies, leveraging **React, TypeScript, OpenLayers, Leaflet.js,** and **AWS** to deliver exceptional user experiences.
- Effectively demonstrated **API development** capabilities and deployed **MySQL database migrations**, ensuring data integrity and optimizing data management processes.
- Managed a vital role in **maintaining regulatory compliance** for front-end applications, ensuring adherence to industry standards.

Learn 2 Teach, Teach 2 Learn @ South End Technology Center
Fabrication Laboratory Manager + STEM Teacher | April 2011 - August 2019

- Engaged and empowered over 200 school-aged children and teens, providing **comprehensive instruction and support** in a wide range of STEM activities encompassing programming, engineering, fabrication & design, and alternative energy.
- Maintained the **operation and maintenance of advanced lab machinery** (SLA 3D printers, Roland vinyl cutter, Epilog laser cutters, and CNC equipment, etc.) ensuring optimal functionality and safety.
- Drove the development of captivating **embedded programming** projects using **C** and **Python** on **Arduino** and **Raspberry Pi** platforms, and other **open-source software**, resulting in innovative creations like a carbon dioxide detection robot and an **Internet of Things** smart mirror.
- Actively **trained students and staff in essential electronic skills** such as fostering a hands-on learning environment and promoting technological fluency.

LEADERSHIP & INVOLVEMENT

ColorStack | Community Member
April 2024

CodePath | Student in Intermediate Cybersecurity Course
February 2024 - Present

Tufts University Pre-College Programs | Lead Coding Teaching Assistant
July 2023

Free Software Foundation | Audio and Visual Technician Volunteer
March 2023