

SA'ID KHARBOUTLI

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EDUCATION	<p>Bachelor in Computer Engineering, Rutgers University, New Brunswick, NJ <i>Graduated May 2022</i></p> <ul style="list-style-type: none">Course work includes Circuit Logic Design, Data Structures and Algorithms, Java and C Programming, Network Programming, Systems Programming, Operating Systems Design, Digital System Design, and Artificial Intelligence.Minors in Computer Science and Military Science.
EXPERIENCE	<p>Project Manager/Consultant, Aug 2022 – Present <i>PYYNE Digital, New York City, NY</i></p> <ul style="list-style-type: none">Currently consulting our client, Inveterate, as a project manager and developer. Manage a team of 6 developers using the Agile framework. Major focus on building developer documentation and SOPs.Internally, managed a team of varying size (4-8) developing internal tools built typically on a PERN stack.Internally, wrote previously non-existent SOPs for internal project processes and compiled our standards and processes into an “Employee Handbook”. Created internal presentation and document templates/assets.Serve as a consultant to external clients with a project management, back-end web development and low-level programming portfolio. <p>Cyber Warfare Officer, Aug 2022 – Present <i>West Orange Armory, West Orange, NJ</i></p> <ul style="list-style-type: none">Support a military intelligence company by providing cyber capabilities. Working to stand up the company’s cyber capabilities. One of the first cyber capable sections in the state of New Jersey. <p>Software Engineer/Integrator, Jun 2022 - Aug 2022 <i>US Army Special Operations Command, Fort Bragg, NC</i></p> <ul style="list-style-type: none">Coordinated with labs at Carnegie Mellon and John Hopkins to integrate, test, and debug LiDAR-based autonomous vehicles. Worked with IP-over-radio based comms systems, ROS in C++, and AI/computer vision for 3D mapping and object recognition.
MAJOR PROJECTS	<p>[NDA] Public API JavaScript NestJS, ExpressJS, NodeJS</p> <ul style="list-style-type: none">A back-end, monolith-structured public API built on NestJS using an ExpressJS engine. Built with the primary goals of strengthening data validation, security and improving performance. Saw an average 600% speed up in request processing. <p>STATIC Python, C++ OpenCV, PX4</p> <ul style="list-style-type: none">Employs OpenCV and an OpticalFlow algorithm to enable automated drone flight using thermal computer vision with other sensors for redundancy. Paired with auxiliary computer vision software for face and object detection and recognition.
SKILLS AND CERTIFICATIONS	<p>Programming Languages: C/C++, JavaScript/TypeScript (ExpressJS, NestJS, and NodeJS frameworks), Python, RISC-V assembly, Java, MATLAB, Verilog, HTML5/CSS</p> <p>Technical Skills: Circuit Design and Simulation in LTSpice, FPGA Programming (VDHL)</p>
AWARDS	<p>Academics: General Military Excellence Medal</p> <p>Leadership: Army Achievement Medal, Colonel Jack Jacobs Award</p>
LINKS	<p>LinkedIn: https://www.linkedin.com/in/sa-id-kharboutli-428785119/</p> <p>GitHub: https://github.com/saidkharboutli</p>