

Gad Major

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EDUCATION

New York University Tandon School of Engineering

Expected December 2028

Bachelors of Science, Mathematics

California State Polytechnic University, Pomona

August 2024 - December 2024

Applied Mathematics

PROFESSIONAL EXPERIENCE

CyberCatch - San Diego, CA

June 2023 - August 2023

Cybersecurity Intern

- Piloted AI-based curriculum to aid teachers in teaching Cybersecurity classes
- Facilitated engagement in Cybersecurity themed Virtual-Reality (VR) based game with students
- Taught concepts such as SQL Injections, Trojanware, Ransomware, and SpearPhishing
- Familiarized self and students with MITRE ATT&CK® Framework
- Engaged students in social engineering techniques and cybersecurity principles to develop awareness of ethical hacking

SKILLS

Programming: Java (Advanced), C++ (Proficient), Python (Proficient), NodeJS

Tools & Frameworks: ROS 2, OpenCV, National Instruments

Systems: Linux/Unix Development, Cybersecurity Analysis

PROJECTS

Bronco Space - Pomona, CA

June 2024 - Present

University Rover Challenge, Team BILLEE

- Developing rover control robotics middleware creating advanced localization and visionary systems using Python and C++
- Utilizing proportional-integral-derivative (PID) controllers and control loops within ROS 2
- Implementing inverse kinematic systems allowing more efficient robotic arm control

FIRST Robotics Competition - La-Crescenta, CA

August 2022 - May 2024

Falkon Robotics, Team 589

- Led software subsystem, consisting of 15 total students, taught runtime concepts, on-site troubleshooting, and error handling
- Wrote over 12,000+ lines of Java developing autonomous and teleoperated robot functions, applying engineering principles
- Integrated various microcontrollers from Ardiuno, REV Robotics, and National Instruments (NI) with WPILib
- Enhanced autonomous capabilities by implementing real-time localization, increasing competitive performance by 20%

LEADERSHIP & COMMUNITY IMPACT

Crescenta Valley Tech Team - Glendale/La-Crescenta, CA

August 2018 - June 2024

Chief Executive Officer (August 2023 - June 2024)

- Managed on-site high school student-led Information Technology (IT) department
- Provided technical support for both school faculty and community members
- Deployed and oversaw the maintenance of technology in 60 high school classrooms and 5 computer labs
- Increased overall workforce efficiency, reduced downtime, and provided proper IT
- Installed, configured, and maintained IoT devices, printers, projectors, laptops, and Cisco network infrastructure
- Secured \$4.5k in cumulative grants in Glendale Unified School District (GUSD) and Career and Technical Education (CTE)

National Technical Honors Society - La-Crescenta, CA

October 2021 - June 2024

President (August 2023 - June 2024)

- Worked with neighboring elementary schools to develop five after-school programs
- Instructed programs on 3D modeling with TinkerCAD, coding fundamentals using Code.org, hands-on laptop dissection
- Directed Google-Suite digital literacy programs for elementary school students
- Organized with elementary school admin and provided technical support on-site

HONORS & AWARDS

2024 **Build With AI Hackathon 1st Place** - Google Developer Group Cal-Poly Pomona

2024 **Honors Software Development and Internship** - Crescenta Valley High School

2024 **Qualification for World Championship** - FIRST Robotics Competition

2023 **Hackathon Finalist** - Crescenta Valley High School Hackathon Club

2023 **Pitchathon 1st Place** - Crescenta Valley High School Hackathon Club

2023 **CompTIA A+ Core 1101** - Computing Technology Industry Association

MEMBERSHIP & AFFILIATIONS

Friends of Falkon Robotics

May 2024 - Present

National Society of Black Engineers (NSBE)

August 2024 - Present

Society for Industrial and Applied Mathematics (SIAM)

September 2024 - Present