

# MOHIT VARIKUTI



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## PROFESSIONAL SUMMARY

I am Mohit Varikuti, a 10th-grade student at Dublin High School in California with a deep passion for technology. I have developed my skills in robotics and software development through my involvement in various clubs and competitions. I am currently working on developing an autonomous algorithm for my team's participation in the FTC 2023 competition and collaborating with University of Berkeley engineering students on a project to develop a flexible robotics arm cover using 3D printing technologies. Alongside my robotics experience, I am also passionate about AI and machine learning, with a focus on developing algorithms using Python for autonomous driving software for robots.

## SKILLS

- Specification Preparation
- Messaging Frameworks
- Business Intelligence Analysis
- Data Abstraction
- Functional Analysis
- Systems Analysis
- Software Package Maintenance
- Effective Communication
- Linux Environments
- Multithreaded Software Applications
- Code Review
- Technical Consulting
- Program Coding
- Enterprise Application Integration Software
- Scripting Languages: PHP, Python, JavaScript
- Compile Documentation
- Data Visualization
- Multi-Domain Programming
- API Design Knowledge
- Developing Tests
- Active Directory Knowledge
- Library Design
- User Training
- Managing Testing
- Cloud-Based Software Development
- Advanced Knowledge of Embedded Systems
- Peripheral Equipment
- Full-Stack Development
- Computer Program Training
- Proficiency in HTML
- Mainframe Operating Systems
- Software Integration

## WEBSITES, PORTFOLIOS, PROFILES

- <https://www.linkedin.com/in/mohitvarikuti/>
- <https://bit.ly/mohitvarikuti>
- <https://mohitv.netlify.app>

## ACCOMPLISHMENTS

- USACO Platinum
- 1800 Chess Rating
- Hackerrank #1 Functional Programming International
- Hackerrank #4 Machine Learning International
- Hackerrank #6 Cybersecurity National
- Top 25 PicoCTF 2023

## WORK HISTORY

### FLL Robotics - Team Captain

*Dublin, CA • 01/2018 - 06/2019*

- Competed in multiple state and regional competitions, achieving top results, as well as qualifying to worlds
- Strong technical, leadership, and communication skills  
Led team to first place at Norcal states and advanced to worlds
- Managed team budget, schedules, and communications with mentors and judges
- Led design and construction of team's robot
- Selected and ordered parts for the robot
- Assembled and programmed the robot
- Invested time to build and strengthen relationships with teammates by inquiring about individual challenges and goals.
- Did a patent on mechanical design we created

### YCW - AI Expert/SWE

*Dublin • 10/2019 - 03/2020*

- Led and instructed students in software engineering and artificial intelligence
- Designed and delivered lesson plans  
Provided one-on-one guidance to students
- Helped students develop technical skills and knowledge using various programming languages and technologies

- Debugging and Troubleshooting
- NET Development
- JavaScript Expertise
- Web Application Development
- Software Development
- Documentation Updates
- Integrated Development Environments
- Manufacturer Collaboration
- Update Applications
- User Requirements
- DevOps Processes
- SQL Expertise
- Coding
- Technical Writing
- Web Security
- Expertise in Programming Language
- Diagrams and Modeling
- Open Source
- Write Computer Programs
- Dashboard Design
- Installation and Maintenance
- Product Development

## CERTIFICATIONS

- Certified Artificial Intelligence (AI) Expert (GTC)
- AWS Certified DevOps Engineer (Professional)
- Biotech and Biomedical Expert (Catia)
- AI: Implications for Business Strategy (MIT)
- Google Analytics Academy
- CS on Python (Google)
- RNN Network: Usage in AI's (HarvardX)
- IBM Applied AI, Distributed Computing (MIT)
- MongoDB Certified Developer (Associates Level) Accelerated Computing with CUDA Python (Nvidia) py4e101: Python (Uni of Michigan)
- Tensorflow Developer Certificate

- Focused on developing problem-solving, collaboration, and communication skills among students
- Made a meaningful impact on the lives and careers of students

### FTC Robotics - AI Programmer

*Dublin • 02/2021 - Current*

- Led and instructed students in robot design and programming for competition
- Implemented advanced odometry techniques for improved navigation accuracy and reliability
- Assisted with technical tasks such as programming robot behaviors and developing machine learning models
- Provided guidance and support to team members

### StockyAI - SWE

*San Francisco • 02/2021 - 11/2022*

- Developed and maintained software solutions for trading and analysis
- Worked with business analysts and traders to understand requirements
- Developed solutions to meet those needs
- Maintained platform stability and performance through innovative software solutions
- Troubleshoot and fixed issues to ensure smooth operation
- Contributed to the company's success by playing a critical role in developing and maintaining the software solutions

### NASA - JPL Program

*Online • 05/2022 - 08/2022*

- Participated in the NASA Jet Propulsion Laboratory (JPL) program, a highly prestigious opportunity for students to work on cutting-edge projects related to space exploration and technology.
- Gained a unique perspective on the intersection of technology and space, working alongside some of the top experts in the field.
- Developed valuable skills such as innovation, working on complex projects, and adapting to a fast-paced environment.
- Demonstrated a passion for innovation and a commitment to pursuing excellence in every project.
- Equipped with transferable skills that can be applied to a variety of industries, including software development and data science.

### GFR (R/S) - Programmer

*Dublin, CA • 02/2022 - Current*

- Led the team in the design and development of software solutions for robots
- Developed odometry algorithms for navigation and control
- Worked on a Flywheel graph to test out a take back half algorithm for flywheel as well as for debugging purposes
- Led team management and growth, providing guidance and mentorship to team members
- Worked on complex motion profiling algorithms