# MICHAEL R. BOLING

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## EDUCATION

**GEORGIA INSTITUTE OF TECHNOLOGY**                                                                 **Atlanta, Georgia**
- GPA: 3.92/4.00                                                                                   *Graduation: December 2023*
- Scholarships: HOPE and Zell Miller, GT Houston Alumni Association

**Bachelor of Science in Mechanical Engineering, Automation and Robotic Systems – Woodruff School of Engineering**
- Relevant Coursework: Control Systems, Fluid Mechanics, Heat Transfer/Thermo, Robotics, Machine Design, Electronics

**Minor in Computer Science, Artificial Intelligence and Computing – Georgia Tech College of Computing**
- Relevant Coursework: OOP, Data Structures and Algorithms, Intro to Artificial Intelligence, Perception, Machine Learning

## TECHNICAL SKILLS

Programming: Proficiency in Java, Python (Numpy, Pandas, Flask, SQLAlchemy, Boto3), C, C++, MATLAB/Simulink, HTML5, CSS3, JavaScript, TypeScript, React.js, MaterialUI, Redux Toolkit, (RTK Query) MySQL, Node.js, Express.js
Software: Experience with Docker, SCRIMMAGE, ROS, GitHub, Git/Linux, JetBrains IDEs, ImageJ, SOLIDWORKS, CATIA, Ansys Granta, Microsoft Office, Adobe Photoshop/Illustrator, MongoDB, PostgreSQL, DynamoDB
Hardware: Licensed Test operator for the Integrated Transmission System of GA, transmission equipment, protective relays
Other: ISO engineering drawing analysis, GD&T, 3D printing, soldering, laser cutting, waterjet, CNC, woodworking

## PROFESSIONAL EXPERIENCE

**SLALOM CONSULTING, LLC**                                                                          **Atlanta, Georgia**
*Software Engineering Intern*                                                                        *May 2023 – July 2023*
- Full-stack software developer and consultant working with multi-billion-dollar revenue client in agile, cross-functional team environment on data exchange portal for their data scientists/engineers
- Frontend: Developed multiple components and features for intuitive and stunning UI using React.js, Typescript, and Redux
- Backend: Created numerous endpoints for API framework interacting with databases (PostgreSQL and DynamoDB) and AWS microservices using Python (Flask, SQLAlchemy, Boto3)

**FLAIRE CO**                                                                                       **Atlanta, Georgia**
*Software Engineering Intern*                                                                        *August 2022 – November 2022*
- Frontend developer utilizing TypeScript with React.js and MaterialUI to create webapp aimed to revolutionize travel
- Involved in beta testing and utilization of agile development to meet strict completion deadline for 100s of users on waitlist

**FLOCK SAFETY**                                                                                    **Atlanta, Georgia**
*Mechanical Engineering Intern*                                                                      *May 2022 – August 2022*
- Evaluated and streamlined manufacturing, distribution, and installation practices for license plate-detecting camera casing
- Designed and tested prototype for multipart product, managed order of over $150,000 for mass-production and manufacture

**GEORGIA TECH RESEARCH INSTITUTE (GTRI)**                                                          **Atlanta, Georgia**
*Electro-Optical Systems Laboratory Research Intern – Collaborative UxVs for Maritime Mapping*      *May 2021 – August 2021*
- Designed and implemented algorithms for Maritime-based collaborative unmanned aerial, surface, and underwater vehicles
- Programmed 20+ plugins for multidomain sea floor mapping environment in SCRIMMAGE robotics sim using C++/ROS
- Utilized radiometric sensor model plugins to simulate data from LIDAR, Radar, IMU, GNSS, and Camera sensor-types

## PROJECTS

**BEDTIME AI**                                                                                      **Atlanta, Georgia**
*Co-founder and Software Engineer*                                                                   *December 2022 – present*
- Co-founder of TechwoodAI, a startup aimed at rapidly building mobile applications using Generative AI
- Conceptualized, designed, and built BedtimeAI, a mobile app on the App Store that uses the latest AI technology to create custom stories with beautiful pictures // Sold to investor for $2,000 in September, 2023

**CREATIVE DECISIONS AND DESIGN (ME-2110)**                                                         **Atlanta, Georgia**
*Robotics Design Team Lead*                                                                          *May 2022 – August 2022*
- Designed and fabricated a fully autonomous robot using SOLIDWORKS, 3D printing, laser cutters, and woodworking
- Programmed control flow of motors, solenoids, and pneumatics in C++ using Arduino controller and library functions
- Placed 2nd out of 11 teams in head-to-head style design competition over multiple rounds

## HONORS/AWARDS

**STRAKE JESUIT COLLEGE PREPARATORY**                                                               **Houston, Texas**
- Valedictorian of Class of 2019 // National AP Scholar                                             *May 2019*

**GEORGIA INSTITUTE OF TECHNOLOGY**                                                                 **Atlanta, Georgia**
- Dean's List // Sigma Chi Beta Psi Chapter Highest GPA                                             *August 2019 – present*