

Sameer Khan

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Experience

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- Blue Bird Teaching | Software Developer Intern** **June – August 2023**
- Increased lesson creation efficiency by more than 50% by incorporating content creation interface.
 - Improved website responsiveness and accessibility for mobile devices.
 - Worked under an AGILE environment using Jira and Slack along with version control (GitHub).
 - Used Confluence and SwaggerHub to document APIs.
- Comet | Flight Test Intern** **June – August 2023**
- Contributed to product development by providing critical feedback and thoughtful recommendations.
 - Analyzed user interface (UI) and experience (UX) and developed new design opportunities.
 - Worked collaboratively in groups to develop new product features and platform solutions.
 - Collaborated with engineers and other departments to develop effective strategies and test plans
- Islamic Association of Raleigh | Intern** **October 2022 – June 2023**
- Organized and led events within the community along with managing 40+ volunteers.
 - Responsible for marketing, volunteer management, and committee coordination.
 - Created lesson plans and taught high school students for Python Programming Course.
- North Carolina State University | Residential Summer Program** **June 2022**
- Worked with Arduino, circuits, and programming for accessibility devices.
 - Created devices for the blind by using proximity sensors, providing haptic and auditory feedback.
 - Devices allowed users to navigate their environment and interact with computers

Education

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- Georgia Institute of Technology | Bachelor of Science in Computer Science** **August 2024 - June 2028 (Expected)**
GPA: N/A
- Green Level High School** **August 2020 - June 2024**
Weighted GPA: 4.69/5.00 | Unweighted GPA: 4.0/4.0

Projects

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- Oral-fluid Monitoring of Glucose (O.M.G.) Smartwatch and Application with Bluetooth Communication**
An extension of NFC-based detection. Uses redox reaction to send an electron impendancy to the IDE (Insulin Degrading Enzyme), translating to the Bluetooth circuit for signal measuring in an iPhone.
- HyrdoScan: Ultra-Low-Cost Microscope for Pathogenic Detection in Drinking Water Using Machine Learning**
A minimalistic and cost-effective device that can aid in pathogenic detection using machine learning and CNN. Uses 3-D Printed models to save cost and for rapid prototyping.
- SkinScan: Real-Time Skin Cancer Classification Using CNNs**
Developed a mobile app using Convolutional Neural Networks (CNNs) to classify skin cancer from images. Users can upload or take a picture of a skin lesion, which is a convenient and cost-effective alternative for early diagnosis.

Awards

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- Congressional App Challenge Winner | United States Congress** **February 2023**
Recognized for development of Oral-fluid Monitoring of Glucose (O.M.G.)
- Introduction to Information Technology | 2nd Place State | Future Business Leaders of America** **March 2022**
Recognized for knowledge about information technology
- Ambition Accelerator Prize Winner | State | Taco Bell and Ashoka Foundation** **October 2022**
Recognized for non-profit business idea to provide resources to STEM Education for the underprivileged.
- Honorable Mention | State and Regional | North Carolina Science & Engineering Fair** **2022 - 2023**
2022: Honorable Mention at Region **2023:** 1st at Regional and Honorable Mention at State