VISHAL JAGANNATHAN

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Education:

Georgia Institute of Technology, Atlanta, GA Master of Science in Computer Science, Machine Learning Focus. Click to see Coursework. University of Pittsburgh, Pittsburgh, PA Bachelor of Science in Bioengineering; Computer Science Minor

Jan 2020 - Dec 2022

Aug 2014 - Apr 2018

Work Experience:

Boston Scientific Senior Software Engineer Jun 2018 -Present

- Developed libraries, frameworks, applications and internal tools for the programming and testing of medical devices for Deep Brain and Spinal Cord Stimulation
- Development of Google Cloud based AI to detect sentiment in patients in a live video stream
- Ideation, organization, and implementation of an Azure Cloud based Virtual Machine cluster to reduce reliance on hardware, speed up development, and save costs
- Mentored 3 summer interns (2019, 2020, 2022) in the creation of data aggregation, resource allocation, client/server, and visualization projects utilizing MongoDB, Express, React, Vue, Node and C# (see right)
- Created and was granted a patent on a smart voice command assistant for the existing Deep Brain Stimulation programming application
- Utilized and developed knowledge in both FDA and European Union regulatory affairs in product design

Android Developer

Published 7 applications resulting in over 10,000 downloads in the Google Play Store

ANSYS Inc.

- Leveraged GIT, TFS, and REST API
- Wrote custom automated scripts utilizing Python, Perl, and Shell Scripting
- Implemented a continuous integration and branch • integration workflow
- Improved build monitoring and notification systems

Mentorship and Clubs:

Summer Mentor 2022 Jun – September 2022 Mentored one intern with little background in coding to • write an application in C# utilizing SignalR, a bidirectional communication protocol Completed wrapper integrated into new ecosystem and was leveraged to form a more complete framework Deliverable leveraged client/server protocol and maintained reliable and robust communication **Summer Mentor 2020** Jun – September 2020 Taught MongoDB, Express, Vue, and Node (MEVN) • stack to one intern Deliverable was a tool that connected to internal and external services to monitor statuses of projects with varying granularity and displayed multiple front ends for different end users Summer Mentor 2019 Jun - August 2019 Taught MongoDB, Express, React, and Node (MERN) stack to one intern Jan 2012 - Present Mentored in the creation of Data Aggregation and Visualization tool to manage test resource allocation **Toastmasters Officer** May 2019 - Present May 2017 - Jul 2017 Recruited members to the Toastmasters organization and • spread awareness of ongoing events Maintained and kept up to date the organization's website, • including meeting details and events

Relevant Skills:

•	Regulation: Knowledgeable in ISO 13485, ISO 14971 and 21 CFR 820	Advanced
•	Mobile Development: Swift, Native Java (Android)	Intermediate
٠	Programming Languages: Python, C++, Java, R, PHP, C#, Golang (Go)	Advanced
٠	Front End Development: Flask, D3.js, React, Vue	Advanced
•	Back End Development: MySQL, SQLite, MongoDB, Node, Django	Advanced
٠	Software Packages: MATLAB, LabVIEW, LaTeX, Solidworks, OpenRefine	Advanced
٠	Frameworks: Tensorflow, Keras, OpenCV, NumPy, SciPy, Scikit Learn	Advanced
٠	Cloud: Databricks, AWS (EMR, S3, EC2, EKS), GCP (Dataproc, VM/TPUs), Docker, Hadoop, Spark	Intermediate
٠	English and Tamil Language	Native
٠	Mandarin Chinese	Intermediate

Patents: