

Prateek Bhatnagar



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EDUCATION

JOHNS HOPKINS UNIVERSITY

Baltimore, MD
2017-2019

Masters of Science and
Engineering
Computer Science
Graduated with Thesis

SKILLS

Python, Flask, Node.js, Express.js, REACT,
Typescript, D3js, Three.js, JavaScript, GO,
AWS, CLOUDFORMATION, C, C++, C#, Unity,
MATLAB, WEB- Django, HTML CSS, Arduino

EXPERIENCE

VEKTOR MEDICAL

San Diego, CA
2021 –Present

Software Engineer III - Full Stack

- Working on software for 510k Cleared device(Cardiology space) working on Research, Development, maintenance and Updates as well as refining the User experience of the device
- Lead team in creating testing protocols and implementing corresponding integration tests - Selenium and Jest
- Developed clean intuitive UI for performance and representation of complex information allowing user to make complex medical decisions with ease
- Specialized frontend visualization for medical data using React JS D3.js and Three.js
- Tech Stack - REACTJS, REDUX , Typescript, FastApi, Python, MySQL

AVENDA HEALTH

Santa Monica, CA
2019 –2021

Software Engineer - Full Stack

- Worked on shipping 2 products:
 - Software for 510k Cleared **BREAKTHROUGH** Med Device - System performs Lesion treatment using a Laser
 - Cloud Software as a Medical Device - Prostate lesion treatment planning system - with an AI treatment planning component a unique integration for a 510k cleared medical device - Unique perspective on designing UI around expert users using AI inputs
 - Tech Stack - REACTJS, REDUX, SASS, RabbitMQ MongoDB, ,GO, Python and AWS
- Experienced with development, documentation and testing within a highly regulated space - Selenium and Jest

THERATAXIS

Baltimore, MD
JUN 2018 –AUG 2018

Software Engineering Intern

- Wrote a C# parsing library for the SDK of the Interson USB ultrasound probe

PROJECTS AND RESEARCH - [GITHUB.COM/LALBADSHAH/](https://github.com/LALBADSHAH/)

- Masters Thesis
 - Used Microsoft HoloLens in conjunction with pupil tracking to produce 2D heatmap of user gaze – part of a medical training system
 - Used Microsoft HoloLens and pupil eye gaze tracking cameras to create a 3D gaze attention tracking experiment
- Real time Transcription of American Sign language using Machine Learning Techniques
- Image Processing - Detecting tumors in MRI scans of brains using thresholding ACCEPTED in International Journal of Pharma & Bio Sciences