Pratyusha Karnati

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
- *Bachelors in Computer Science and Engineering, Concentration: Intelligence, Devices* **| GPA:** 3.65/4.0   Aug 2017 – May 2020
- *Master of Computer Science in Computational Perception and Robotics* **| BSMS Program**   Aug 2020 – May 2021
- **Coursework**: Deep Learning; Networking; Automata & Complexity; Machine Learning; Design & Analysis Algorithms; Perception & Robotics; Prototyping Intelligent Appliances; Digital Design Lab; Computer Systems & Arch; Probability & Statistics

Gainesville High School   Gainesville, GA
- **GPA:** 4.26/4.0 **| Rank:** 1 out of 388   Aug 2013 – May 2017

EXPERIENCE

Microsoft
Program Management Intern on Graphics for Core OS and Intelligent Edge   May 2019 – Aug 2019
- Developed a sizing guidance for Windows Virtual Desktop customers with varying workloads to increase Azure's MAU, drafted a project plan, conducted competitive analysis, leveraged telemetry and ran performance tests, solidified alignment on product vision to drive clarity
- Created "Toastmasters for Interns" to help interns become more effective communicators, managed 12 interns, sessions engaged 180+ interns

Explore (SWE & PM) Intern on Windows NeXT   May 2018 – Aug 2018
- Implemented a feature to mix and match 3D models by extracting textures from preselected textures, personal styles, or designs from other 3D models, designed MVP in Typescript and final feature product in Ember in Remix3D to increase Monthly Active Users
- Authored high-quality functional product spec, worked with design, marketing, engineering, UR, finance, & product to deliver best solutions

Grand Challenges Program
SpectroSam, Co-Founder   Aug 2017 - Present
- Developing speech-language technology for children with hearing disabilities through a mobile edutainment game application
- Develop frontend user interaction, coordinate curriculum development, lead project for app development, business, legal, etc.

Teaching Assistant   Aug 2019 - Present
- Manage canvas class site, collaborate with professors and facilitators to create the best environment for the students to innovate

Contextual Computing Group/UbiComp Lab *(Undergraduate Student Researcher, Advisor: Thad Starner)*   Jan 2018 – May 2019
- Developed passive haptic wearable technology to help patients improve their sensation and dexterity after injuries
- Updated Head Worn Displays exhibit through the study of virtual reality properties and the social use of HWD

GT College of Computing Technology Services Organization (*Student Assistant*)   Aug 2017 – May 2018
- Reviewed hardware and software issues and applied IT coursework and training towards finding a solution for both students and faculty instantly, addressed concerns through interactions based on customer service skills

Spiralyze (*Summer Software Development Intern*)   Jun 2017 – Aug 2017
- Used A/B testing to optimize company's website to help generate more traffic and revenue by updating company websites and by designing new templates for the webpages

LEADERSHIP/ORGANIZATIONS

Interdisciplinary Design Commons (*Peer Instructor, Volunteer*)   Aug 2019 – Present
- Trained on IDC's equipment to create a comfortable, low-pressure learning environment to aid students accomplish their goals safely

HackGT (*Operations & Technology Team, Organizing Committee*)   Dec 2017 – July 2019
- Organize event logistics for 1000+ member hackathons, develop tech for HackGT (i.e. curriculums, apps, websites, NFC systems, etc.)

Georgia Tech Bhangra (*Student Government Association Representative*)   Aug 2017 – May 2019
- Manage student government relations for my Bhangra team, discuss financial and travel information

Math Tutoring Business (*Math Tutor, Founder*)   May 2015 – Aug 2017
- Help elementary and middle schoolers in current coursework, eliminate summer learning loss, and/or help them get ahead of the curriculum

PROJECTS

Mr. Tutor (*Freelance Developer and Designer*)   Dec 2019 – Present
- Developing a software portal to help a small business tutoring service manage their accounts more effectively and increase returns

Skin Cancer Analysis (*Machine Learning Final Project*)   Nov 2019
- Used various supervised learning classification methods to find the best method of skin cancer lesion detection, got an accuracy of ~95%

Kinesse (*Create-X Idea to Prototype*)   Feb 2018 - May 2019
- Developed an wearable chip that allows runners to listen to music and track their stats without having to bring their phone on runs

Bobot (MakeMIT 2019 Hackathon: Top 7 Finalists, Devpost: /g_karnati2004)   March 2019
- Automated Boba machine that acts as a standalone salesman using Computer Vision to attract people towards it

Ovenbot (PerkinsHacks 2018 Hackathon: Challenge Award Winner)   March 2018
- Designed a voice guided mobile application that allows the visually impaired to interact more efficiently with modern home appliances

SKILLS

Software: Java, Python, C#, Pytorch, TensorFlow, HTML, CSS, JavaScript, Swift, C, C++, XML, Ember, TypeScript, Git, Unity, Photoshop, Agile
Hardware: Arduino, Raspberry Pi, Printed Circuit Board (EAGLE CAD), 3D Printing, Laser Cutting, Electronics Benchtop