Achintya **Kumar**

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Work Experience

NetApp Inc. *Durham, NC*

Software Development Intern *May. 2019 - Aug. 2019*

- Spearheaded the development of new front end technologies resulting in improved workflow experiences
- Partnered with a global team to overhaul the design of the internal case tracking tool
- Improved case tracking efficiency by 70% for Support Engineers using a customized framework
- Showcased my project to company executives and employees and received several accolades

Duke University *Durham, NC*

Duke Technology Center *June 2018 - Dec. 2018*

- Advising students with technology solutions for their needs
- Providing after sales support on computers and peripherals

Patek Lab, Biology Department, Duke University *Durham, NC*

Research Assistant for Dr. Patek *Sept. 2017 - Dec. 2017*

- Captured ultra-high-speed videos up to 300K fps and collected data of a trap jaw ants mandible strike to measure and analyze forces, energy, and power density
- Applied the captured data to create statistical models and conclusions based upon their filmed motion
- Co-authored a research paper “Tick Tock Tiny Impacts: A novel pendulum mechanism for measuring energetics of trap-jaw ant strikes”
- Presented research to the project stakeholders (Department of Defense) and received accolades for the work

Education

Duke University *Durham, NC*

B.S. in Electrical/Computer Engineering, B.S in Computer Science, GPA: 3.74/4.0 *Aug. 2018 - May. 2022*

- Relevant Coursework
  - Advanced Software Design and Implementation, Computer Architecture, Data Structures and Algorithms, Signals and Systems, Intro to EE, Ordinary and Partial Diff. Eq., AI Projects
- Hacking for Defense - I&E 590
  - Collaborating with the 818th Operations Support Squadron to find a solution for the ”Securing Communications between JTACs and Pilots” problem
  - Interviewing 6-10 Department of Defense officials a week to conduct extensive market research on the selected problem
  - Developing an Android application with the research obtained for the DoD that will integrate with their existing hardware to give instant feedback to close air support soldiers on whether they’re being jammed or not while trying to communicate with pilots
- Other Projects (On Github) from coursework
  - Worked with Agile teams to develop large Java projects including creating a classic Turtle LOGO environment as well as implementing a Simulation environment with several configurable cellular automata simulations
  - Utilized Tensorflow to create an AI model that identifies metastatic tumors in lymph nodes
  - Developed a full stack website to remotely connect students and tutors for class using JS, PHP, MySQL, and C. Website and database cloud hosted on AWS through Heroku
- Recipient of ”Department of Defense (DoD) Scholarship” and ”IBM Watson Scholarship” for academic excellence

Technical Skills

Languages Java, Python, C, C#, JavaScript, HTML5, CSS, MATLAB

Technologies Git, VueJS, Firebase, ExpressJS, SQL, MongoDB, REST API, Tensorflow

Tools Azure, AWS, Heroku, IntelliJ, Android Studio, Xcode, Jupyter

Leadership and Community Involvement

Software Lead *Cary, NC*

First Robotics Team 2059 *Aug. 2016 - May. 2018*

- Implemented agile development to program robot within an intense 6 weeks
- Utilized the WPI library and OpenCV computer vision platform to program robot in Java
- NC State winner; SC State 2nd place, Engineering Inspiration Award, Industrial Safety Award, 2x Innovation in Control Awards, 4x Gracious Professionalism Awards

Volunteering

- Netapp Habitat for Humanity - designed, crafted and painted wooden playhouse for children - proceeds from its auction went to HFH
- Coach FIRST Lego League - Coached 2 rookie FLL teams who successfully competed at the state championship