Parthib Taisho Samadder

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EDUCATION

Yale University, New Haven, CT May 2019
B.S. in Electrical Engineering and Computer Science, GPA: 3.90
Relevant Coursework: Data Structures, Computer Architecture, System Programming & Computer Organization, Algorithms, Natural Language Processing, Linear Algebra, Multivariable Calculus, Embedded Systems, Communication & Computation, Functional Programming, Computer Networks, Silicon Compilation
Awards: Magna Cum Laude, Tau Beta Pi Engineering Honor Society, Tau Beta Pi Stabile Scholar

WORK EXPERIENCE

Amazon Web Services, *Software Development Engineer*, Seattle, WA Sept. 2019 – Present
- Develop software to support the EC2 Spot service

Dialog System Technology Challenges, *Research Assistant*, New Haven, CT May – Sept. 2018
- Collaborated with IBM, University of Michigan, and Dr. Dragomir Radev's lab to debug baseline TensorFlow code and write dataset conversion scripts for Dialog System Technology Challenge 7

Yale Mobile, *Software Developer*, New Haven, CT Jan. 2017 – Sept. 2018
- Lead developer on team to revamp the Official Yale Android app that expects thousands of downloads (based on the previous iteration's statistics)
- Implemented the retrieval, parsing, filtering, and display of data retrieved from Yale's API
- Developed custom ListAdapter library files used by all team members of the project
- Trained new team members to work with our codebase and workflow

Department of Electrical Engineering, *Undergraduate Researcher*, New Haven, CT Sept. 2016 – July 2017
- Proposed, implemented, and analyzed new designs for FPGAs under Professor Jakub Szefer
  - Utilized the kNN algorithm to categorize handwritten digits using hardware only
  - Converted NMIST's database of handwritten digits to a format usable by hardware
  - Devised matrix multiplication to investigate 3D computations over PCIe Express
- Designed several modules in Verilog HDL including bitonic sort for graduate student use

Student Technology Collaborative, *Cluster Technician Coordinator*, New Haven, CT Jan. 2016 – May 2019
- Manage a group of students in deploying statistics software across all computer labs at Yale
- Aid undergraduate and graduate students across the university with technology and troubleshooting
- Perform on-site hardware and software repairs for Yale's computers

ACTIVITIES

Personal Project, *Android Developer*, Tucson, AZ Jun. 2015 – Oct. 2019
Self-taught Android Development and programmed a 2D Android game made using a physics engine built from scratch. Over 1000 installs on Google Play!

Yale Undergraduate Aerospace Association, *UAV Team Member*, New Haven, CT Sept. 2015 – Jan. 2017
Constructed the final design for the team's autonomous UAV by dremeling a carbon-fiber lay-up

SKILLS AND INTERESTS

Programming	Proficient: Java, C, Git, Python, MATLAB, Verilog HDL, Racket, AVR Assembly, Arduino Intermediate: Ruby on Rails, JavaScript, HTML, CSS, React, Raspberry Pi
Software	Android Studio, Quartus II, LyX, Arduino IDE, NetBeans, Eclipse, LabStats, Magic VLSI
Interests	Basketball, Ultimate Frisbee, E-Sports, Guitar, Hiking, Spanish, Card Games