

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 I*, Seattle, WA

Sept. 2019 – Present

- Develop software to support the EC2 Spot service and APIs

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 24,000 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, Dart, Python, C, MATLAB, Racket, AVR Assembly, Arduino
Intermediate: Ruby on Rails, JavaScript, HTML, CSS, React, Verilog HDL

Software

Flutter, Android Studio, Quartus II, LyX, Arduino IDE, NetBeans, Eclipse, Magic VLSI

Cloud Services

EC2, DynamoDB, AWS Lambda, CloudWatch, API Gateway, Firebase Auth