ANEEK MUKHERJEE

COMPUTER ENGINEERING AT CMU

ANEEKM.COM

CONTACT INFO

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ACTIVITIES

15-441: Computer Networks Teaching Assistant - Carnegie Mellon University, Fall 2019
Men's Water Polo Club President - Carnegie Mellon University, 2019-2020
Men's Water Polo Club Treasurer - Carnegie Mellon University, 2018-2019

TECHNICAL SKILLS

Languages:
- C/C++
- Java
- Python
- C#
- Javascript
- HTML/CSS
- x86-64 & ARM
- MATLAB
- SystemVerilog
- SQL
- VBA

Tools/Technologies:
- AWS Lambda
- Elasticsearch
- AWS CloudFormation
- React/React-router
- Git
- Arduino
- bash/zsh
- Wireshark
- Linux + Windows
- AutomationAnywhere
- Pega Robotics

COURSEWORK

- 15-150: Principles of Functional Programming*
- 18-330: Introduction to Computer Security*
- 15-441: Computer Networks
- 18-349: Embedded Systems
- 15-213: Introduction to Computer Systems
- 18-240: Structure/Design of Digital Systems

AWARDS

3x Winner and Top 30 Hack - PennApps XVIII (Fall 2018)
National Merit Scholar and Presidential Scholar Candidate for New Jersey
SAT - Math: 800, Reading: 800, Writing: 800

EDUCATION

Carnegie Mellon University
Pittsburgh, PA | Class of 2020
B.S. Electrical and Computer Engineering, Minor in Robotics

Phillips Exeter Academy
Exeter, NH | Class of 2016

EXPERIENCE

Amazon Robotics - Software Development Engineer Intern
Seattle, WA | Summer 2019
- Designed and implemented a cloud service to track work done by robotic workcells in Amazon Fulfillment Centers with the Robotic Applications team.
- Service utilized AWS Lambda functions, Elasticsearch, and Kinesis to record events, stitch together workflows, and search for instances of work done based on any recorded data
- Integrated one robotic workcell application with the service as a Proof of Concept as well as to demonstrate the functionality to other interested teams

LinkedIn - Intelligent Automation Intern
San Francisco, CA | Summer 2018
- Worked with the Intelligent Automation Center of Excellence to personally develop automations that save the company 3 weeks a year.
- Built a dashboard detailing the status of all production automation bots using SharePoint, Power BI, and SQL

Pegasystems - Robotic Process Automation Intern
Atlanta, GA | Summer 2017
- Developed and shipped a new feature - reflectively identifying points of automation in .NET and Java apps - for Pega Robotics' flagship automation software, using C#, C++, and Java.

ACADEMIC PROJECTS

Babble PennApps XVIII | Fall 2018
- 100% offline, P2P-based messaging service
- Google Nearby for connectivity, Android Beam/NFC for offline installation, MongoDB for storing local/remote chat record and syncing to assistance

Microprocessor Kernel Embedded Systems | Fall 2018
- a basic kernel written in ARM assembly and C that supports multi-threaded synchronization and highest-locker protocol scheduling
- Used that kernel to implement a PID controller and motor synchronizer

Autonomous Rover Senior Project | Spring 2016
- Designed and built a load-carrying 4-wheel rover with rudimentary visual tracking and path-following algorithms, using a Raspberry PI, Arduino, and ultrasonic sensors

RESEARCH

MIT CS and AI Lab - Research Intern
Boston, MA | Summer 2015
- Assisted graduate students at MIT in their "Automatic Data Science Machine" software, which became an in-house startup and learned methods of big data analysis and prediction through Kaggle competitions