

ANEK MUKHERJEE

COMPUTER ENGINEERING AT CMU
ANEKM.COM

CONTACT INFO

Cell: 732-983-1949
Website: aneekm.com
Email: aneek@cmu.edu
Address: 5505 Beacon St,
Pittsburgh, PA 15217

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:	Tools/Technologies:
• C/C++	• AWS Lambda
• Java	• Elasticsearch
• Python	• AWS CloudFormation
• C#	• React/React-router
• Javascript	• Git
• HTML/CSS	• Arduino
• x86-64 & ARM	• bash/zsh
• MATLAB	• Wireshark
• SystemVerilog	• Linux + Windows
• SQL	• AutomationAnywhere
• VBA	• Pega Robotics

COURSEWORK

- 15-150: Principles of Functional Programming*
- 18-330: Introduction to Computer Security*
- 18-341: Logic Design and Verification (Digital Hardware Design)
- 15-441: Computer Networks
- 18-349: Embedded Systems
- 15-213: Introduction to Computer 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