Ahmed Lone

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EDUCATION

UNIVERSITY OF PENNSYLVANIA
BEng in Computer Science
Expected May 2021 | Philadelphia, PA

WHARTON SCHOOL OF BUSINESS
BS in Economics
Expected May 2021 | Philadelphia, PA
Concentration in Finance

GPA: 3.82
Dean's List (All Semesters)

LINKS

Github: **github.com/ahmedl9**
LinkedIn: **linkedin.com/in/ahmed-lone/**

AWARDS

-Yale IV Debate: Novice Semifinalist, 2017
-Isenburg Scholarship, $10,000 2017
-Canadian Debate Nationals 12th, 2017
-Waterloo Hypatia Math Conetest 1st (out of 5,500), 2016
-Canadian National Science Fair, 2016:
-Manning Top Innovation Award
-Actuarial Award for Mathematics
-Silver Medalist, Excellence Category

COURSEWORK

Cloud Computing (current)
Automata, Computability (current)
Computer Architecture
Data Structures
Algorithms
Networks
Functional Programming

SKILLS

PROGRAMMING
Over 5000 lines:
Java • C++
Over 1000 lines:
C • OCaml • Assembly • Python
Familiar:
HTML • CSS • LaTex • Javascript

EXPERIENCE

VALIDERE | Analytics Intern
May 2018 – July 2018 | Calgary, AB

- Joined the technical sales and data analytics team at a Y-Combinator graduate.
- Automated lead generation and CRM workflow with contact web scraper built using Java, Regex, and Apache libraries.
- Directed cold sales prospecting campaign and A/B testing, joined sales calls and client meetings, performed industry research, and organized PR outreach.

PENN DEPARTMENT OF MEDICINE | Research Assistant
March 2018 – May 2018 | Philadelphia, PA

- Worked on an explanatory model for medical resident under-performance with natural language processing under Dr. Janae Heath. Used Python and NLTK.

PENN GRASP ROBOTICS LAB | Volunteer Research Assistant
December 2017 – Feb 2018 | Philadelphia, PA

- Focused on computer vision and its application in grain size analysis for application in locomotive robotics and data collection Under Dr. Koditschek.

HIGH ARCTIC ENERGY SERVICES | Finance/Operations Intern
May 2013 – Aug 2013 | Calgary, AB

- Compiled large data sets on Snubbing and Nitrogen Services on financial efficiency. Processed technical reports and Citrix data to model operations.
- Produced actionable insights and presented directly to the CEO.

AR2 ROBOTICS LAB, UNIVERSITY OF CALGARY | Researcher
Mar 2012 – May 2013 | Calgary, CA

- As an independent researcher worked on unique phenomenon identification in computer vision, building fire detection platform with Python and OpenCV. Also had a minor focus on EMG sensor analysis for theoretic prosthetic application.

PROJECTS

PHILADELPHIA POLICE ANALYSIS: HOMOPHILY + RACIAL BIAS
April 2018 – May 2018
Using database found on OpenDataPhilly created a parser to analyze nearly 4,000 complaints across the police districts in Philadelphia to search for trends in race and gender against police misconduct. Algorithms for construction, traversal, and homophily calculations were implemented alongside empirical analysis.

2D PLATFORMER GAME ENGINE
Jan 2016 – April 2016
Using solely JPanel tools created a basic game engine with modifiable levels, quest management, basic physics, animations, game state management, and save states.

CAMERA BASED FIRE DETECTION
Jan 2016 – April 2016
Created a fire detection system. OpenCV and Numpy were used in a multi-step detection algorithm that recognized motion, identified pixel color in comparison with a training set, and applied spatial analysis for patterned movement. Awarded $10,000 in recognition by Youth Science Canada.