Rameez Saiyid

Canadian Citizen

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Education

Carnegie Mellon University | B.S. in Computer Science | *Aug '17 - May '21*

- Key Courses: Computer Systems, Computer Security, Machine Learning
- Minor in Business Administration: Finance, Micro/Macro Economics, Intellectual Property

Experience

Human Capital | Software Engineer *human.capital* | *Aug '21 - Present*

- Architected a Turing complete language and compiler to formalize data pipelines to stand training data for ML driven analysis across interactions to provide business metrics and indicators for investment and talent teams.
- Led design and implementation of a provable security infrastructure across our suite of relationship management services to ensure SEC compliance.
- Supported hiring and managing an agile engineering team, successfully overseeing the launch and adoption of several key projects across our business ecosystem from sourcing deals to placing talent to enable data collection.

Argo | Cofounder & CTO *argo.qa* | *Mar '20 - June '21*

- Created an automated delivery platform and negotiated deals to reach an MRR of 35,000 QAR in 4 months.
- Developed a 'zero knowledge' proven driver delivery app for a free market of job-less Uber drivers during COVID-19.
- Designed a heuristic route optimization algorithm to deliver multiple orders efficiently at a time with no overhead.

Aquatic Robots for Marine Environment Monitoring | Research Associate *tarmem.org* | *May '19 - Aug '19*

- Researched ocean wave simulations through ROS and Gazebo with realistic wave physics and ocean characteristics.
- Developed the modular simulation system for real time testing of the integrated network of aerial and aquatic robots.

Meddy | Software Engineering Intern *meddy.com* | *May '18 - Aug '18*

- Optimized web app's frontend with Django and AngularJS resulting in site performance increase of 20%.
- Implemented core features: doctor-patient scheduling, insurance recommendations, and Arabic locale format.

Projects

CASPRE: EZ Genetic Disease Detector | Fluorescent Analysis, Fusion 360, PCB *caspr.rameezs.com* |

- Developed an affordable genetic disease detector across a multi-disciplinary team using novel Cas12a enzyme.
- Designed hardware interfaces for robust testing with IoT support and probabilistic fluorescent analysis.
- Sponsored by Carnegie Mellon Qatar and Khaliji Bank, and presented at iGEM's Boston Conference for third place.

Wrist Mounted Flamethrower | Pressurized Cans, Transformer, Fusion 360 *build.rameezs.com/flamethrower* |

- Developed and still enhancing a strappable palm-sized flamethrower, capable of shooting meter long flames.
- 3D Modelled a wrist mount, and designed a custom fuel regulating butane chamber with variable flow.
- Endorsed by Senior Flame Thrower Developer, Daniel Kimminau, of The Boring Company.

PingBot: The Self Driving Robot | Raspberry Pi, UV4L, OpenCV, FLASK *build.rameezs.com/pingbot* |

- Implemented an OpenCV image processing pipeline for lane following and collision prevention.
- Configured a FLASK web server for threaded remote motor control and live video with UV4L WebRTC libraries.
- 3D Modelled the casings and designed a custom PCB to house and integrate a Raspberry Pi and core actuators.

Extracurricular Activities

Leadership — Head Orientation Counselor, President of The Planetary Society, Vice President of the Music Club
Service Trips — Humanitarian relief trip to Cambodia

Skills

Programming — C, Java, Python, JavaScript, Solidity, x86-64 Assembly, SML, HTML/CSS
Hardware — Soldering, PCB Design, Autodesk Fusion 360
Design — Adobe: Photoshop, Illustrator, After Effects, Premiere
Web2 — Google Firebase, Amazon AWS, Heroku, Docker, Django, Fast, ReactJS, AngularJS