Vardhman Mehta

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Education

University of Washington, Seattle **December 2017**

BS, Computer Science | GPA: 3.77
Coursework: Machine Learning, Artificial Intelligence, Algorithms, Data Structures with Parallelism, Distributed Systems, Operating Systems, Systems Programming, Data Visualization & Database System Integrals.

Proficiencies & Technologies:

Languages: Java, JavaScript, Python, NodeJS, Golang, C, Bash, HTML, CSS, Ruby, C++ & SQL.
Frameworks: Git, Django, ExpressJS, AngularJS & Consul.
Databases: MongoDB, Postgres & ElasticSearch.
Amazon Web Services: AWS EC2, AWS Lambda, Amazon API Gateway & Amazon Elastic Search Service.

Experience

PupilScreen Research Assistant (Paper in submission) | UbiComp Lab UW **January 2017 – Present**

- Research to diagnose concussions by tracking pupil size over time. Implemented a convolution neural network using TensorFlow to segment pupils. Obtained a segmentation accuracy of ~92%.
- Co-author of the research paper in submission to PACM IMWUT.

FTI Technologies | Software Engineer Intern **June 2016 – September 2016**

- Developed RAWS: A command line tool to auto deploy a distributed system of Consul clusters using AWS services.
- Implemented Lambda functions. Reduced transaction time to query million objects from ElasticSearch by 20%.

BiliCam Research Assistant | UbiComp Lab UW **January 2016 – May 2016**

- Research to optimize ML algorithms that analyze a newborn baby for jaundice. Implemented regression algorithms to determine potential Bilirubin levels using baby's photos with a success of about 89%.
- Implemented the authentication and file transfer system for the research project.

CleverTap | Software Engineer Intern **June 2015 – September 2015**

- Developed Validator: A plugin for IDEs to autocorrect, autofix and autoinsert code for smooth SDK integration.
- Developed migration code for Maxmind's GeopIP1 to GeopIP2 to make location tracking efficient.

Projects & Extracurricular Activities

Launch: (launch.startupuw.com)
Web-App of all the startup resources and side projects in and around campus. Allows users to add projects, upvote them and build a network.

PathFinder: GoogleMaps API
Implemented an algorithm to find the shortest path between various locations on google maps. Takes into account traffic, time to travel and signals.

Unsplash Daily Wallpaper
Implemented a linux init script that queries for HD pictures from Unsplash and updates wallpaper daily. Designed the interface to select photo types and criteria.

Chess Bots using AI
Implemented alpha-beta and Jamboree algorithms to make chess bots. Developed heuristics with success rate of 80% against a master level bot.

Startup UW: (startupuw.com)
Technology and Finance head of UW's largest entrepreneurship club providing assistance for startups. Organized a Startup Weekend for UW.

Dubhacks Hackathon
Stood 5th among 80 teams. Made a network to make open source projects more accessible for developers. Was responsible for the complete backend in NodeJs.