

Vardhman Mehta

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Education

University of Washington, Seattle

December 2018

BS, Computer Science | GPA: 3.77 (**MS, Computer Science from January 2018 – December 2018**)

Coursework: Machine Learning, Artificial Intelligence, Algorithms, Data Structures with Parallelism, Distributed Systems, Operating Systems, Systems Programming, Data Visualization & Database System and Design.

Proficiencies & Technologies:

Languages: Java, Python, JavaScript, NodeJS, Bash, Golang, C, Git, HTML, CSS, Ruby, C++ & SQL.

Frameworks: TensorFlow, Django, ExpressJS, Flask, & AngularJS

Databases: MongoDB, Postgres & Elasticsearch, DynamoDB.

Amazon Web Services: AWS EC2, AWS Lambda, Amazon API Gateway & Amazon DynamoDB.

Experience

Amazon | Software Development Engineer Intern

June 2017 – September 2017

- Implemented a travel itinerary extraction model from emails using AWS lambda for later use on Alexa.
- Implemented a classification model to classify important people in email inboxes. Developed a pipeline structure to enable other teams to easily integrate new use cases for emails with Alexa.

PupilScreen Research Assistant (Paper accepted) | UbiComp Lab UW

January 2017 – Present

- Research to diagnose traumatic brain injury by tracking pupil size over time. Implemented a convolution neural network using TensorFlow to segment pupils.
- Co-author of the research paper that was accepted by the 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.

Personal 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.

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.

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.

Startup UW: (startupuw.com)

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

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.

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.