

Maulik Doshi

DEVELOPER | ENGINEER | ENTREPRENEUR



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maulik-doshi



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EDUCATION

Carnegie Mellon University - Pittsburgh, PA

May 2018

GPA: 3.26 (B.S. in Computer Science, Minor in Robotics)

Programming: Computer Science Foundations in 15-112 (Python), Imperative Computation (C), Functional (SML)

Algorithms: Parallel and Sequential Data Structures and Algorithms, Algorithm Design and Analysis**

Architecture: Computer Systems, Distributed Systems*, Operating Systems (self-study)*

Applications: Artificial Intelligence*, Probability and Computing*, Machine Learning**, Computer Vision**

Middlesex County Academy for Science, Math and Engineering - Edison, NJ

June 2014

GPA: 4.00 (Electronic and Computer Engineering Concentration), Nationally Ranked STEM High School

EXPERIENCE

Shopify (e-commerce web application platform) - Ottawa, Canada

May 2016 - Aug 2016

Software Developer Intern

- Worked on a team that gave eligible merchants cash advances to grow their businesses
- Built and deployed back-end Ruby on Rails MVCs / front-end UIs to track new requests for capital
- Wrote instrumentation to monitor performance of the core system and RESTful APIs
- Produced Apache Kafka events to be consumed by the data team for rigorous analysis
- Collaborated with developers, designers, writers, and managers using Github and Slack

SmartEnergy (Shell-funded renewable energy startup) - New York, NY

May 2015 - Aug 2015

Software Engineer Intern | Business Intelligence Developer Intern

- Built a cloud-based business intelligence reporting system using Tableau Software
- Wrote and optimized SQL queries to organize data for use in Tableau data visualizations
- Performed big data analytics for deeper visibility into sales growth and customer acquisitions
- Designed Python scripts for manipulating data and batch scripts to automate tasks
- Worked with the CEO / COO to generate reports used to make critical business decisions

LEADERSHIP

15-150: Functional Programming - Carnegie Mellon University

Aug 2016 - Present

Teaching Assistant (TA)

- Teach and reinforce material from lecture to a class size of 20 in recitation and lab
- Hold weekly office hours and answer questions on Piazza to help students with coursework
- Write homework / lab handouts and grade completed assignments for 200+ students

CMU Bhangra Dance Team - 98-217 Course Instructor | Competitive Dancer | Interim Manager (CMU)

Student Government - School President | Class President (MCA)

FIRST Robotics FTC Team 4311 - Team Captain | Head Programmer | Lead Driver (MCA)

JAINA Jain Academic Quiz Bowl - Team Captain (MCA)

PROJECTS

"Will I Make It" - Python App integrating Google Maps API and SQLite (<http://tinyurl.com/will-i-make-it>)

"Rolling Around a Cube" - 3D Game using Python and vPython (http://youtu.be/gNRZglfhj_Q)

"H.A.S.M.A.A.D." - Patented Autonomous Crop Spraying Drone (<http://mcainventeam.wordpress.com/>)

"Guessquares" - MauDoApps App Available on iOS Devices (<http://www.maudoapps.com/>)

SKILLS

	Python	C / C++	SML / Functional	Ruby on Rails
	Linux Terminal	Git	SQL	Go
	MATLAB	Tableau	Assembly	Networks
	Objective-C	HTML / CSS	APIs	Java

INTERESTS: Music Production (MIDI Keys + Cubase), Sports (Basketball) - **LANGUAGES**: English, Gujarati, Spanish