





# Maulik Doshi


DEVELOPER | ENGINEER | ENTREPRENEUR

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## EDUCATION

**Carnegie Mellon University** - Pittsburgh, PA

Dec 2017

GPA: 3.37 (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

Applications: Computer Systems, Distributed Systems, Machine Learning, Computer Vision (Ranked within Top 5), Artificial Intelligence\*, Natural Language Processing\*

**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 - Dec 2016

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](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