Akash Kumar

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Work Experience

Intigo3D [A software focused 3D printing company]: Full Stack Intern turned Engineer ⠀⠀⠀July 2017-March 2018

> Programmed arduino controlled 3D printers to accept commands and provide failure statistics to a Raspberry Pi

> Created an encrypted print pipeline using Python, Flask, and AWS on a raspberry pi and AWS IoT

> Rebuilt print pipeline yielded a 95% success rate and 70% faster operation compared to pre-existing solutions.

> Created a web service for designers that allowed them to sell their work and fight piracy using React and Node.

NYU, MakerSpace: Technical Lead (Student TA) ⠀⠀⠀2016-2017

> Built the initial software infrastructure using Node, Flask and Python paired with the machines in the space.

> Stopped hundreds of dollars in theft through the software tracking and server based monitoring I created

> Coordinated larger projects with other staff and taught technical skills in weekly workshops to NYU students.

Grafiti: Data Visualization Intern ⠀⠀⠀Fall 2017

> Built interactive visualizations using 6 million lines of data to demonstrate the Grafiti system and methodology.

> Used Kaggle for initial data, Python (pandas) for filtering, Google Big Data and Cloud for visualization and analysis.

Mango Concept: Rapid Development Intern ⠀⠀⠀Summer 2016

> Rebuilt video system using web technologies and bootstrapping existing solutions. Decreased load times by 300%.

> Started an advertising platform for one of Mango's brands, increasing product awareness by 75%.

NYU, Engineering and Technology Forum: Prototyping Focused Teaching Assistant ⠀⠀⠀2015 - 2016

> Taught a weekly class for all first-year engineering students about entrepreneurship.

> Developed and graded weekly projects based on the lean startup methodology.

Howl Interactive Incorporated: Co-founder ⠀⠀⠀2013 – 2017

> Built games and utilities for mobile. Used Swift, Java, and frameworks like React Native as they became available.

> Incorporated the company and handled the business side as well, even got NYU to pay for the lawyers!

Recent Projects

Rocket Telemetry: Used python and sensors (accelerometers, GPS, cameras) to track a rocket with triple redundancy.

D-20: Implemented a server side neural network to detect different kinds of music and display it with lights on an art piece.

Uber Movement: Made Uber Movement data accessible in a public facing API and displayed it in graphs using node.

Resonance Research: Used Matlab and python to develop technology to mitigate surgical risk using sound and vibration.

Skills

Adobe Suite	Javascript
Bootstrap	MATLAB
Flask	Node JS
Go	Python
HTML/CSS	React

Relevant Course Work

Computer Science	Design
Digital Logic	User Experience Design
Computer Architecture	Wearables
Data Structures	Motion Graphics
Data Visualization	Typography

Education

New York University | School of Engineering ⠀⠀⠀January 2018

B.S. Integrated Digital Media

A degree that combines computer science with human centered design to create compelling interfaces.