Akash Kumar

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Work Experience

Intigo3D [Software focused 3D printing startup]: Full Stack Engineer   5/2017-5/2018

> 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.

> Consulted on marketing and strategy, building media kits for investors to raise funding.

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 analysis startup]: 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 [Full-service digital agency]: 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 [Mobile software]: 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.

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 design to create compelling digital products.