Akash Kumar

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Work Experience

Coenterprise: Implementation Analyst   6/18-Current

> Used Python & Java to automate migration tasks leading to an 8x increase in the project scope.

> Developed custom tracking with javascript and Tableau allowing for better visibility and risk mitigation.

> Lead a team of 5 using an agile work-flow, greatly reducing on-boarding time compared to previous efforts.

Intigo3D: Full Stack Engineer   7/17-5/18

> Created an encrypted print pipeline using embedded hardware, Python, AWS IoT.

> Developed 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   2016-2017

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

> Built our hardware and monitoring resources to help students utilize the space and tailor it to their needs.

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

Grafiti: Data Visualization Intern   Fall '17

> Designed interactive visualizations using 6 million lines of data to demonstrate the Grafiti system.

> 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 '16

> 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: 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 of an early stage start-up.

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 js.

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

Skills

Software	Hardware	Design	Languages
Digital Logic	3D printing	User Experience Design	C++
Computer Architecture	Arduino	Wearable Technology	HTML/CSS
Data Structures	Circuit Design	Motion Graphics	Java
Data Analytics	Laser Cutting	Typography	Javascript [React]
Docker	Raspberry Pi clusters	Adobe Suite	SQL
	CNC	Data Visualization [Tableau]	Python

Education

New York University | School of Engineering   2018

B.S. Integrated Digital Media

A degree that combines computer science with design to create compelling digital products.