

# David N Juboor

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## EDUCATION

### Drexel University

Philadelphia, PA | B.S. in Chemical Engineering

- Co-operative education at an accelerated pace including entrepreneurship experience
- Coursework had a strong focus on programming, data science, and mathematical modelling

**Cumulative GPA: 3.2**

(Expected) June 2018

## EXPERIENCE

### GlaxoSmithKline R&D

March 2017 - Present

Automation Engineer | Upper Merion, PA

- Developed machine learning pipelines for autonomous high throughput laboratory robotics
- Co-authored industry-wide manuscript for solid dispensing via unsupervised learning visualizations
- Utilized CNNs in Keras to reduce pre-formulation resources required for drug analysis by 500x

### Vertex Laboratories

October 2016 - Present

Founder and CTO | Philadelphia, PA

- Navigated strategic partnerships with tech giants NVIDIA, Microsoft, and IBM (among others)
- Recruited, mentored, and promoted future leaders in AI through tech talks and internship program
- Integrated GraphQL on Azure Functions and AWS Lambda to support scalable single-endpoint databases

### SpaceX Hyperloop Team

January 2016 - January 2017

Head of Control Systems | Philadelphia, PA

- Worked with team of 110+ to manufacture hyperloop pod tested at Hawthorne facility January 2017
- Supervised 16 engineers who designed, tested, and implemented controls software for prototype
- Designed, manufactured, and fielded custom navigational aid sensors to automate control stages

## PROJECTS & HACKATHONS

### Zillow \$1.2M Competition

Current

Hosted by Kaggle

- Automated G-Means clustering algorithm to determine training subsets of interest
- Implemented automatic Barnes-Hutt-SNE onto sparse datasets to visualize underlying distribution shifts

### MakeMIT

February 25, 2017

Awarded >\$16,000 in prizes

- Incorporated generative adversarial networks with GPU support on an NVIDIA Jetson TX-1 Development Kit
- Generated text letter-by-letter to write poetry in English exhibiting short and long range form

### Apache Spark

May 2016 - August 2016

Received Honorary Mention

- Decreased model training by 5x via Spark's parallel processing capabilities for faster prototyping
- Improved voice detection and data collection by implementing novel algorithms for data pipeline

## LANGUAGES AND SKILLS \*Most familiar with

Python\*   Matlab\*   Machine Learning\*   GraphQL   TensorFlow   Keras\*   SQL   Cloud Hosting\*   C++

## INTERESTS

Parkour   Robotics   Table Tennis   Artificial Intelligence   Slam Poetry   Entrepreneurship

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**Blog:**

[www.holdmyramen.com](http://www.holdmyramen.com)

**LinkedIn:**

[www.linkedin.com/in/davidnjuboor](http://www.linkedin.com/in/davidnjuboor)

**GitHub:**

[www.github.com/djuboor](http://www.github.com/djuboor)