

# Arun Kirubarajan

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## EDUCATION

### University of Pennsylvania (Artificial Intelligence Dual Degree Program)

- **3.7 GPA** in **Computer Science** and Cognitive Science (Linguistics) from 2017 to 2021
- Pursuing **Statistics Minor** at the Wharton School of Business

## WORK EXPERIENCE

### Research Assistant @ [University of Pennsylvania](http://University of Pennsylvania) (Current)

- Built application for uploading/comparing neural chatbots using Docker and Django
- Built Facebook ParlAI Framework integration for evaluation and warehousing of models
- Built standardized automatic/human evaluation scripts using Word2Vec & Mechanical Turk
- Deployed across AWS cluster with SSL encryption using Docker Swarm (submitting EMNLP paper)

### Technical Author @ [Digital Ocean](http://Digital Ocean) (Current)

- Wrote documentation for deep learning deployment techniques with Tensorflow and Docker
- Developed end-to-end product templates using Node.js and Python for 150,000 readers
- Matching revenue with donations to technical nonprofits (i.e. TechSoup, Linux Foundation, OpenAI)

### Backend Developer @ [Penn Labs](http://Penn Labs) (Current)

- Developed university-wide PennSDK for retrieving data on courses, facilities, etc. in Python (Redis)
- Deployed Express application w/ token authentication and MongoDB database for public data API
- Developed features in React/Express and launched online service for 10,000+ undergraduates

### Backend Engineering Intern @ [TrackGen](http://TrackGen) (June 2017 to August 2017)

- Developed microservice for autonomous driving sensor data fusion (C++ and SQL)
- Created admin interface with React/Node.js and deployed virtual network with SSL encryption
- Scaled microservice to handle max loads of 100% more users than before
- Re-designed and deployed high-performance computation system to reduce AWS bills by over 200% using Kubernetes and EC2 Dynamic Scaling

## PROGRAMMING PROJECTS

**crypt:** AES256 Secure Password Manager with Disposable Emails (PennApps XV Best Security Award)

**Penn Tech Review:** Article CMS in Django with Deep Learning Recommendation System (2,000+ users)

**programjs:** Node Module for Common Algorithms and Data Structures ES6 Implementation

## SKILLS

TensorFlow, **React**, **Express**, **Django**, MongoDB, Numpy, **Keras**, **AWS**, Flask, **SQL**