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## **Education**

## **Princeton University**

September 2015- May 2019

B.S.E in Computer Science, Certificate in Statistics and Machine Learning

GPA: 3.7/4.0

Relevant Courses: Algorithms/Data Structures, Big Data/Machine Learning, Functional Programming, Networks, Inform. Security, Programming Systems, Logic Design, Probability + Stochastic Systems, Reasoning about Computation, Statistics, Linear Algebra

# Experience

## **Software Engineering Intern**

Summer 2018

Amazon

## **Software Engineering Intern**

Summer 2017

**Phosphorus** 

- Redesigned management portal and implemented custom UI/UX components in admin dashboard using Wicket and Scala.
- Created distributor preference/permission scoping model in Scala, Spring Boot, Hibernate, and Postgres SQL.
- Helped configure elastic load balancers and auto scaling groups on AWS, and wrote Cloud Formation Templates.

Research Intern Summer 2016

Harvard-MIT HST Program

- Developed web tool for visualizing geographic trends in AETNA insurance and US Census data using R and MySQL.
- Contributed to open-source client-side web application (<a href="http://pklab.med.harvard.edu/jean/ubit2/index.html">http://pklab.med.harvard.edu/jean/ubit2/index.html</a>).

# Leadership

**Codirector** 2017 - current

HackPrinceton (hackprinceton.com)

- Princeton's biannual hackathon hosts over 1,100 students from around the world each year. In 2016, I was an organizer and now, I am the head director for HackPrinceton Fall 2017 and Spring 2018. I manage a team of 30 organizers and a budget of \$150,000.

## **Cofounder and Director**

2016 - 2017

Princeton University Science Olympiad (<u>scioly.princeton.edu</u>)

- 800 of the USA's top high school students compete at the annual Princeton University Science Olympiad invitational tournament.
- Led a team of 10 students, 100 volunteers, and founded this campus group from scratch. Coordinated the writing of 23 events.

# **Projects**

### **TigerTexts**

Consolidates book pricing information from multiple sources and offers third-party seller platform. Built for Princeton students. Link: https://tigertexts.io/about

Technologies Used: Node.js, Express, React, Redux, MongoDB, Scrapy

### Lyff

Enables user to call a Lyft ride with just a phone call. Won "Best Use of Vonage/Nexmo API Prize" at PennApps Fall 2017. Link: https://github.com/akashlevy/Lyff

Technologies Used: Python, Nexmo API, Google Maps API, Amazon Lex, Amazon Lambda, Lyft API

Open-source client-side web app for visualization and analysis of RNA-seg and qPCR data. Computation done entirely in browser. Link: http://pklab.med.harvard.edu/jean/ubit2/index.html

Technologies Used: JavaScript (JQuery, D3), HTML5/CSS3 (Bootstrap)

# Skills

Programming Languages		Web Development		Data Science		Frameworks and Tools	
- Java	- C	- HTML	- Django	- R	- Machine		- Hibernate
- Python	- Go	- CSS	- Flask	- SQL	learning		- Unix
- OCaml	<ul> <li>Javascript</li> </ul>	- Meteor.js	- Node.js	- AWS		- Wicket	- Git

# **Publications**

- [3] UBiT2: a client-side web-application for gene expression data analysis.
- [2] Heart-specific Rpd3 downregulation enhances cardiac function and longevity. Aging, 7(9), 648-660. doi:10.18632/aging.100806
- [1] Topological defects as relics of emergent continuous symmetry and Higgs condensation of disorder in ferroelectrics. Nature Physics, 10(12), 970-977. doi:10.1038/nphys3142

## Awards