

# JOHN PHILIP

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## EDUCATION

### **Northeastern University | Boston, MA**

Expected Graduation: May 2020

Candidate for a Bachelor of Science in  
Computer Science and Mathematics

**Related Coursework:** Object-Oriented  
Design, Calculus III, Graduate  
Algorithms, Advanced Linear Algebra,  
Database Design, Graduate Human -  
Computer Interaction

**Honors:** Honors Program, Presidential  
Global Scholar, Dean's Scholarship

**GPA:** 3.58 / 4.0

## COMPUTER KNOWLEDGE

### **Languages**

**Proficient:** Java, Python, SQL

**Familiar:** JavaScript (JSX), R, PHP, C#

### **Software**

React.js, Node.js, Express, React  
Native, TensorFlow, NumPy, Unity,  
Alexa Skill Builder, LaTeX

### **Tools**

Git, Linux, JetBrains Suite, Firebase,  
Microsoft SQL Workbench, Android  
Studio, Xcode, Jupyter, Postman,  
MacOS

## INTERESTS

Mozzarella sticks, machine learning,  
bubble tea, music, cooking, non-fiction

## WORK EXPERIENCE

### **FX Digital, Ltd., Research and Development Intern**

London, UK | July - August 2018

Created audio visualization application in Unity using signal  
processing techniques, C# and Visual Studio

Developed Alexa skills utilizing PHP libraries for voice-based  
interaction models based on client specifications.

Integrated Discovery channel web viewer application for use in TV  
using Java and the Android TV SDK.

### **WHOOOP, Data Analytics Intern**

Boston, MA | January - April 2018

Performed research for determining potential changes to the  
calorie calculation algorithm using Jupyter notebooks and data  
visualization techniques.

Developed notification system in Python for users who were  
wearing their WHOOOP strap incorrectly based on time-series heart  
rate and accelerometer metrics.

Automated delivery of data reports to elite clients, significantly  
reducing business development workload.

### **Northeastern College of Computer and Information Science,**

*Teaching Assistant for Object-Oriented Design and Programming with Data*

Boston, MA | September 2017 - December 2018

Tutored concepts such as design patterns, scalability, and other  
core principles of object-oriented programming.

Facilitate interdisciplinary practica that focus on programming  
basics, as well as the social aspects of computer science, such as  
ethics of computer science, systemic bias in algorithms, etc.

## PROJECTS

### **Petcetera, MySQL, Node.js, Express, JavaScript, React.js**

September - December 2018

Created a website dedicated to helping pet owners find appropriate  
pet sitters for high maintenance or exotic pets.

### **Denoising Autoencoder, Python, TensorFlow**

August 2018

Implemented a neural network that removes random noise from  
handwritten digits and reconstructs them.