KHANH NGUYEN

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Education

New York University **May 2022**

• *GPA:* 3.8, *Major:* Computer Science

Language/Technologies/Tools

• **Programming Language:** Java, Python, C, JavaScript, TypeScript, Haskell, R, Mathematica, Kotlin
• **Web:** HTML, CSS, JSON, JSP, Flask, React, SQL, Gradle, Maven, Tomcat Server

Work Experience

Software Engineer Intern **Sep 2019 – Present**

New York University, Vertically Integrated Project

• Worked in a team of 4 students to design a website that helps Sound of New York City Lab collect and display sound data in New York City
• Implemented a CRUD API using Python, Flask and SQLite
• Collaborated closely with the researchers to build the front-end as a single-page application using React

Software Engineer Intern **May 2019 – Aug 2019**

FPT Software

• Worked in a team of 15 on a project for NSK Europe to maintain and add new features to the company's inventory management system for customers across Europe
• Researched and designed a new screen to manage the transaction of industrial machinery bearings using Java EE
• Learned Tomcat Server, Java Enterprise and OracleDB to build and deploy a large-scale web application

Undergraduate Research Assistant **Apr 2019 – Sep 2019**

University of Maryland, College Park

• Assisted Dr.Gurarie in a NASA-funded project, Animals on the Move
• Constructed different types of plots and graphics to explore the Western Arctic Herd (WAH) Caribou movement data and investigated their changing patterns in Alaska from 2010 to 2014
• Performed data analysis on 120,000 data points and 45 unique IDs using R to find the abnormalities in the movement of the Caribou

Software Engineer Intern **Jan 2019 – May 2019**

Capital News Service

• Independently prototyped Twitter bots to analyze data using Open Weather API and tweet the output to raise awareness about climate change in Baltimore City
• Used Python, seaborn and NumPy to generate visualizations and heat map to demonstrate the danger of extreme heat and humidity to Baltimore residents
• Examined data using Python for a project focusing on the effects of the extreme temperature on the health of poor neighborhoods in Baltimore based on combination of heat, humidity and lack of air-conditioning

Software Projects

Schedge **Sep 2019 – Present**

• Maintained the open source project, Schedge, which is a scheduler API that helps NYU students browse courses more easily
• Built web scraper, data parser, and web server for 16 MB of course data using Java and Javalin
• Implemented courses, sections and semester component for the front-end using React and TypeScript

NYU Sentiment Analysis Project **Dec 2019 – Jan 2020**

• Independently scraping and processing 18 MB of NYU subreddit data using Python, matplotlib, pandas and SQLite
• Utilized machine-learning libraries to categorize 20,000 comments and 7,000 posts data into different content types and classify their sentiments
• Observed an upward trend in the NYU subreddit with 60-70% positive contents