KHANH NGUYEN

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Education

New York University (Expected) 5/2022

- B.A in Computer Science, GPA: 3.8

Technical Skills

- **Languages:** Java, Python, C, JavaScript, Haskell, HTML, CSS, PostgreSQL, SQLite
- **Technologies:** Flask, Javalin, React, Node.js, Git, Docker, AWS, Kubernetes

Work Experience

Software Engineer Intern, **Orenda Inc** 6/2020 – 8/2020

- Designed an energy consumption dashboard for clients hosted on AWS in team of 3
- Automated machine learning model for predicting daily peak of energy usage on cloud-based service, tested performance of algorithms and fine-tuned parameters
- Built API using Python, Flask, PostgreSQL and wrote frontend in React, recharts, styled-components
- Sped up data scraping by 50% using asynchronous request batching

Software Engineer Intern, **FPT Software** 5/2019 – 8/2019

- Worked on a web-based application managing industrial machinery bearing data and handling online transactions for a bearings manufacturer in Europe in a team of 15 people
- Learned Tomcat Server, Java Servlet, JSP, JavaScript, HTML and CSS to design a new screen to enhance users experience based on clients' requests

Software Engineer Intern, **CNS Maryland** 1/2019 – 5/2019

- Contributed to the Climate Change project at Capital News Service and collaborated with team of 3 developers
- Prototyped a Twitter bot to visualize heat index, raising awareness about impacts of extreme heat on low-income communities in Baltimore City
- Implemented bot in Python, seaborn, OpenWeatherMap API and Twitter API

Software Projects

BUGS Website (git.io/JUnV2) 8/2020 – Present

- Remodeled and redesigned club's website using React and styled-components to attract more club members, leading to 20% increase in sign-ups during club fair
- Supported dark mode and members' contribution timeline on the website

Schedge (git.io/JJu3m) 1/2020 – Present

- Maintained Schedge, an open source API for NYU course data, using Java and Javalin, to help students plan courses more efficiently
- Built web scraper, data parser and API endpoints for class sections' data
- Refactored CLI to be more user-friendly and reduced codebase by 20%

Sentiment Analysis Project (git.io/JJp1M) 12/2019 – 1/2020

- Utilized machine-learning libraries to categorize 20,000 comments and 7,000 posts data into different content types and classify sentiments
- Scraped and processed 18 MB of NYU subreddit data using Python, SQLite and Reddit API
- Observed an upward trend in the NYU subreddit with 60-70% positive contents