Chan Park

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EDUCATION

Duke University

Durham, North Carolina

August 2020 - May 2024

Minors - Economics and Philosophy

Bachelor of Science - Computer Science, Concentration - AI/ML

GPA: 3.76

Courses: Data Structures and Algorithms, Computer Architecture, Design and Analysis of Algorithms, Database Systems, Discrete Math, Multivariable Calculus, Econometrics, Advanced Data Science, Microeconomics, Probability, Linear Algebra, Artificial Intelligence

TECHNICAL SKILLS

- Languages & Frameworks: C, C#, Java, Javascript, Python, Scheme, SQL | Angular.js, Express.js, Flask, React.js, Vue.js
- Tools & Libraries: AWS, Blender, Figma, GCP, Git, Jenkins, Postman, Unity | Matplotlib, Pandas, PyTorch, Scikit, Three.js

Work Experience

• Capital One

Richmond, Virginia

June 2023 - Present

Software Engineering Intern

- Pioneered submission and search capabilities into a feedback form **Micro Frontend** component with API endpoints in the backend for frontend (BFF) and enterprise API layers, streamlining the feedback collection process for 16,000+ users
- Architected a scalable AWS OpenSearch index to store feedback form data and harmonized it with the enterprise API endpoints, enabling powerful search capabilities with reduced search query response time

• Duke University

Research Assistant

Durham, North Carolina

May 2023 - Present

• Optimized **hyperparameter search** for a gradient descent based **assisted learning** algorithm using **AutoML** in PyTorch Teaching Assistant August 2022 - May 2023

o Orchestrated weekly one-on-one Office Hours and conducted weekly recitations of 25+ students for courses "Data Structures and Algorithms" and "Design and Analysis of Algorithms," aiding comprehension and fostering algorithmic development

• Cigna Health

Bloomfield, Connecticut

Application Developer Intern

May 2022 - August 2022

- Integrated Google Analytics into a fitness campaign app using Angular.js to track interactions of 40,000 users and created Cloudwatch Dashboards to monitor AWS server/database health in realtime. Dashboards helped decrease annually occurring issues regarding overloaded EC2 instances, ELB, and AWS RDS for MySQL by 80%
- Multithreaded a Python3 web scraper that translated the organization hierarchy of Cigna's 70,000 employee into a visual, with information stored in a SQLite database; multithreading amplified performance efficiency by over 10-fold
- o Revamped Cigna's **Virtual Reality** Meditation app with multiplayer capabilities like avatar selection, hand-tracking, and **cross-device object interaction** with Unity, C#, Meta Avatars SDK, and Oculus Integration SDK. Presented at Cigna's booth at the Fall 2022 Grace Hopper Conference

• BNSoft

Seoul, South Korea

Software Intern

June 2021 - August 2021

- \circ Determined UI/UX features for an application that facilitates building operating systems under the **AUTOSAR** model.
- Pitched Vue.js Proof of Concepts in biweekly meetings with CEO and CTO, resulting in approval for integration with application to be used in development of Hyundai automobiles

PROJECTS

- Personal Website: Innovated a visually immersive Three.js website resembling a café to introduce myself and showcase personal projects; employed Blender to personally design, mesh, and render all objects featured. (August 2022 July 2023)
- Spotify Notion Integration: Programmed Notion Integration with Flask Backend and SQLite database using the Spotify API to authenticate user, generate Notion databases for viewing and sorting tracks in user's playlists and recommendations, and produce new playlists based on different moods(May 2023 July 2023)
- Mini-Amazon: Engineered e-commerce web app using vanilla Javascript frontend, Flask back-end, and PostgreSQL database acessed by SQLAlchemy where registered users could buy and/or sell products according to inventory space, user balance, and product price (September 2022 October 2022)
- **Proximity**: Led Agile team as Tech Lead for an **Okta-integrated** web app displaying optimal in-person workdays using coworker data. Architected backend connectivity between **DynamoDB** and **Express.js**, and spearheaded API integration with React client. Added functional testing with Microsoft Playwright (May 2022 August 2022)
- Market Analysis: Analyzed daily open/high/low/close/volume stock market data from 100+ NASDAQ companies over past 20 years obtained with Alpha-Vantage and Yahoo Finance API's with PCA, logistic regression, and KNN. Models created using Python, NumPy, SciPy, Pandas, Matplotlib (July 2021 October 2021)
- Mindful Garden: Created website with React.js promoting mental health with interactive features for user meditation, mood journaling, mindful breathing, and sleep scheduling. Awarded Best Hack for promoting Health & Wellness at HackDuke 2021 (October 2021)