Chan Park

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Education

Duke University — Durham, North Carolina
Bachelor of Science - Computer Science, Concentration - AI/ML — *August 2020 - May 2024*
Minors - Economics and Philosophy — *GPA: 3.74*
Courses: *Data Structures and Algorithms, Computer Architecture, Design and Analysis of Algorithms, Introduction to Database Systems, Discrete Math, Multivariable Calculus, Introduction to Econometrics, Advanced Data Science, Microeconomics, Probability, Linear Algebra, Artificial Intelligence*
Organizations: *Brownstone (August 2021 - Present), Catalyst (March 2021 - Present), Asian Students Association (August 2020 - Present)*

Technical Skills

- **Languages & Frameworks**: Python, Java, C, C#, Javascript, SQL, MIPS, Scheme | React, Vue, Angular, Express, Flask, Three
- **Tools & Libraries**: Git, SQLite, Figma, Unity, Blender, Playwright, Jira, AWS, GCP | Scikit, Pandas, Matplotlib, PyTorch

Work Experience

- **Duke University** — Durham, North Carolina
  Teaching Assistant (Data Structures and Algorithms / Design and Analysis of Algorithms) — *August 2022 - Present*
  - Facilitated weekly recitations of 25+ students reviewing data structure and algorithm content
  - Orchestrated weekly one-on-one Office Hours helping students debug projects and understand class material
- **Cigna** — Bloomfield, Connecticut
  Application Developer Intern — *May 2022 - August 2022*
  - Integrated Google Firebase into the Cigna Wellness Challenge App using Angular.js and created Cloudwatch Dashboard to monitor AWS server/database health and interaction data of 40,000 users in realtime.
  - Implemented a Python3 multithreaded web scraper that stored employee information of 74,000 Cigna employees in SQLite database with regex and requests; multithreading amplified efficiency over tenfold.
  - Revamped Cigna's VR Meditation app with multiplayer capabilities like avatar selection, voice integration, and cross-device interactive objects, as well as hand tracking and locomotion, 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*
  - Designed and determined new UI/UX features of AUTOSAR-based OS platform based on customer and developer input by creating Proof of Concepts with Vue.js and presenting them in biweekly meetings with CEO and CTO.
  - Developed approved features using Vue.js and Node.js of the AUTOSAR-based OS platform for use in Hyundai automobiles.
- **University of California, San Diego** — San Diego, California
  Research Intern — *June 2019-August 2019*
  - Wrangled and plotted Pentagon dataset of 8 million international events using numpy, matplotlib, and pandas, and uncovered notable inconsistencies in data in the process.
  - Utilized Principal Component Analysis to analyze pandas data by simplifying the data through its eigenvalues and assimilating it into one dimension, thus creating a scale for comparing multidimensional data points.

Projects

- **Mini-Amazon Web app**: Engineered e-commerce web app using React front-end, Flask back-end where registered users could buy and/or sell products according to inventory space, user balance, and product price (September 2022 - October 2022)
- **Mood Playlist Creator**: Programmed an web app in Python3 using the Spotify API that authenticates a user with OAuth 2.0, and creates new playlists by mood using songs in their current playlists (May 2022 - August 2022)
- **Proximity Web App**: Oversaw Agile team as Tech Lead for a Okta-integrated web application that depicts a user's optimal days for in-person work based on coworker data; spearheaded DynamoDB to Express backend connection, AWS server hosting, and API creation to communicate with React client. Tech: ReactJS, ExpressJS, DynamoDB, Postman, Playwright, AWS (EC2, ECC) (May 2022 - August 2022)
- **Stock Market Reader/Analyzer**: 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 principal component analysis, logistic regression, KNN, and a neural network built using the Iris Flower dataset. Tech: Python, NumPy, SciPy, Pandas, Matplotlib, Tensorflow (July 2021 - October 2021)
- **Mindful Garden Website**: Created a web app using React JS, HTML, and CSS that promotes 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. Tech: ReactJS, Node.js (October 2021)