Dillan Pho

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EDUCATION

BOSTON UNIVERSITY — Boston, MA
Bachelor of Arts - Major in Computer Science — January 2025

Related Coursework: Data structures, Algorithms, Distributed Systems, Data Science App, Databases, Machine Learning
Honors: University Scholarship, Dean's List

SKILLS

Languages: Python, Java, OCaml, C, C++, JavaScript, Typescript, SQLite
Libraries: React.js, Next.js, Flask, Pandas, NumPy, Scikit-learn, Selenium
Tools & Platforms: AWS, Firebase, Docker, MongoDB, Postman, Git, Linux, Unix

PROFESSIONAL EXPERIENCE

BU Spark! — Boston, MA
Data Scientist — Jan 2024 – May 2024
- Built a robust data pipeline using PDFplumber to automate extraction of **800+** pages of tabular and unstructured text, transforming PDFs into structured CSVs and reducing manual processing time by **80%**.
- Mapped 236 Massachusetts high schools, enriching data narratives through interactive, location-based insights.
- Applied correlation analysis and linear regression modeling to quantify relationships between school characteristics and socioeconomic factors, identifying key predictors of educational disparities.
- Conducted equity-focused data analysis by examining demographic trends, academic performance metrics, and funding distribution, revealing potential systemic disadvantages affecting communities of color.

Second Nature — Boston, MA
Data Scientist — Jan 2024 – May 2024
- Analyzed 5 datasets (200+ colleges) to identify institutions surpassing Carbon Reduction Goals, enhancing sustainability reporting accuracy.
- Developed 4 data visualization graphs and a comprehensive data sheet to quantitatively assess which institutions were making measurable progress toward sustainability targets.
- Identified and documented **2 critical errors** in Second Nature's SIMAP (Sustainability Indicator Management & Analysis Platform) reporting tool, leading to improved data collection protocols.

PROJECT EXPERIENCE

Keta (Medicine Interaction Application) | React, Python, Javascript, Flask, Firebase
- Led a cross-functional 3-member team in developing a drug interaction web app using React and Flask, ensuring 99% accuracy in detecting prescription conflicts.
- Achieved microservices architecture to facilitate continuous development with minimal downtime.
- Designed user-friendly web interface for easy sign-up and efficient medication management.
- Integrated Firebase OAuth authentication for enhanced security and user management.
- Managed user data, including medications and conflicts, leveraging Firebase's Realtime Database.

Bit.ly Clone (Link Shortener) | TypeScript, Next.js, React, Material UI, MongoDB
- Created a URL shortening service with custom link management and analytics tracking.
- Engineered a responsive web interface for generating, storing, and retrieving shortened URLs.
- Leveraged MongoDB for efficient database storage and retrieval of URL mappings.
- Deployed the application on Vercel, ensuring scalability and low-latency access.

Portfolio Website | TypeScript, Next.js, React, Material UI, Motion (Framer-Motion)
- Developed a fully responsive personal website to showcase projects, experience, and skills, improving online presence.
- Designed an intuitive, accessible UI with Material UI and TailwindCSS for a seamless cross-device experience.
- Implemented Framer Motion for smooth animations and dynamic interactions, enhancing visual appeal.

Private Memo Hub | TypeScript, Next.js, React, Firebase OAuth2, MongoDB
- Designed and built a private messaging platform where users can securely store and access their own messages.
- Ensured seamless authentication and data privacy, allowing only users to view their own messages.