Barnett Han

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EDUCATION

The University of Texas at Austin   August 2022 - May 2026
Bachelor of Science in Computer Science, Minor in Business   *Austin, TX*
- GPA: 3.62
- Relevant Coursework: Data Structures, Machine Learning, Linear Algebra, Computer Architecture, Operating Systems, Object-Oriented Programming, Discrete Math

SKILLS

Programming Languages: Java, Javascript/Typescript, Python, PHP, C/C++
Databases: MySQL, Firebase, SQLite
Web Development: React, HTML/CSS
Libraries & Developer Tools: Git, Jira, Doctrine, Docker, Pandas, NumPy, scikit-learn, Websockets, Kanban, Postman, Flask

EXPERIENCE

Paycom   May - August 2024
Software Development Intern   *Grapevine, TX*
- Designed & developed a system to catch, monitor, and display the end-to-end life cycle of 10,000+ frontend errors
- Created an efficient Doctrine PHP back-end with an agile schema to facilitate fast data transfer via API endpoints
- Displayed error data on dashboard built with React, TypeScript & native Paycom framework for fast visualization
- Implemented a comprehensive email notification system that sends newsletters based on user preferences
- Created user-friendly UI and page layouts, mapping out user journeys to ensure intuitive UX & design

Paycom   May - August 2023
Software Development Intern   *Grapevine, TX*
- Engineered a robust Live Chat platform to facilitate direct connection between 37,000+ clients and live agents leveraging Socket.io, saving clients 80,000 work hours annually
- Spearheaded the creation and seamless integration of PDF chatlogs and UI components with React & TypeScript
- Developed a highly scalable MySQL schema, reducing database coupling among client and agent records
- Utilized GitLab & Jira to maintain agile development methodologies with colleagues & mentors
- Maintained 90% unit test coverage, strict code formatting, and linting rules within projects

Huntsman Corporation   June 2021
Software Development Intern   *The Woodlands, TX*
- Contributed to an automation project utilizing a 6-axis robotic arm, vision guide, laser sensors, and an electro-mechanical load frame to automate the testing of polyurethane foams, reducing manual labor by 95%
- Achieved a 90% time reduction in the end-to-end process of converting test requests from LMIS to the daily lab schedule and reporting test results through automation using Python with SQLite, Pandas, and NumPy

PROJECTS

InstaTab   November 2024
- Created application that transforms YouTube music links into guitar tabs with history & favorites functionalities
- Utilized Flask to connect Python backend to React & TypeScript frontend for generation & transfer of guitar tabs

Intern Project Selector   July 2024
- Created web app using React that allows for 150+ interns to view & learn about projects and rank their selections
- Designed and implemented a modular admin dashboard that displays data of each project & intern selection

Octomize   September - December 2023
- Led development of full-stack web app powered by React & Firebase that utilizes the Ebbinghaus forgetting curve to optimize & automate the study schedule creation process, eliminating students' time spent on creating schedules

Merchandise Distributor   July 2023
- Directed front-end development of merchandise distribution tracker, streamlining delivery to over 6,500 employees
- Leveraged React and Next.js to create an accessible & responsive UI, placing 1st in the company hackathon