

ARMAAN PATANKAR

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EDUCATION

Brown University, Providence, RI Expected May 2026

Bachelor of Science, Computer Science and Economics

Relevant Courses: Computer Systems, Program Design with Data Structures and Algorithms, Object-Oriented Programming, Intermediate Microeconomics, Statistical Inference, Ordinary Differential Equations, Linear Algebra

Valley Stream South High School, GPA: 111.97 Valley Stream, NY June 2022

Awards: Top 2% of Graduating Class, National AP Scholar, AP Capstone Diploma

Ugeqpf 'Rree, National Honor Society President, Science Honor Society President, Captain of Mock Trial

PROJECTS

Shell, CS300 (Software Systems, File Organizing) October 2023

- Implemented core functionalities such as process execution, command parsing, and input/output redirection, background and foreground jobs resulting in a *robust and versatile* shell
- Designed and implemented a custom command-line interface with a focus on usability and efficiency, incorporating features like history, tab completion, and job control
- Intensive error-checking to protect against failed user input or possible function failure

Music Streaming Platform, (Software Engineering, Full-Stack, Data Structures) August 2023

- Orchestrated the development of a dynamic and responsive user interface, using **Next.js**, **React**, and **Tailwind CSS** to create an immersive user experience with smooth animations and transitions
- Achieved efficient data handling, real-time updates, and user interactions, enhancing the overall project's functionality and user engagement through full-stack development
- Accomplished the implementation of a robust backend using **Supabase**, ensuring secure user registration and login processes with advanced functionalities like song uploads, favorites, playlists, and real-time data updates

Decision Tree, CS200 (Machine Learning, Data Structures) February 2023

- A machine learning program which reads in data sets of information broken down by attributes to form classify different items
- Utilizes *Hashmaps* and *Lists* to form different structures to store data which is fed into different algorithms to train the program on the classification heuristic
- Implemented the algorithm using object-oriented programming principles, including encapsulation and inheritance

More available upon request

NGCFGTUJ IR'CPF'GZRGTKPEG

Dtqy p'Crrngf 'Eqo r wlpj, Uqj qo qt g'Ngcf gt " " Cwi wu 2025-Present

- J quvgf 'rtgugpvcqpupf'ugo kpcu'qj'gr "gxr qug'cpf'lpvqf weg'uwf gpw'u'q'pgy "eqo r wlpj 'Hgrf u
- Eqqtflpcvgf "j cenvj qpu."tcf lpi "eqo r gvkqpu."pvgtxlgy "rtgrctcvkp"ugukqpu'hqt'uwf gpw'qp"eco r wu

Brown-RISD STEAM, Project Manager May 2023-Present

- Coordinated with hardware and software designers to oversee the completion of the project and exhibit
- Organized and hosted various events such as mushroom hunts, creative coding workshops, and more

More available upon request

SPECIALIZED SKILLS

Technical: Python, Java, C, C++, Git, React, Node.JS, Next.js, HTML, CSS, Swift, Functional and Object-oriented Programming

Languages: English (fluent), Spanish (fluent), Hindi (intermediate), Urdu (intermediate), Arabic (Beginner)

Interests: Econ-DUG E-Board, Hack@Brown, Sunrise at Brown, Brown Tutoring, Brown South Asian Student Association, Brown Quantum Computing, Brown Model UN, Climbing