Denish Patel

929-371-9720 | dp9798@princeton.edu | linkedin.com/in/denishpatel13 | denish2003.github.io/

EDUCATION

Princeton University   Princeton, NJ
Bachelor of Science in Computer Science   May 2026
Minor: Architecture and Engineering
Relevant Coursework: Programming System; Algorithm and Data Structure; Introduction to Machine Learning; Reasoning for Computer Science; Multivariable Calculus; Linear Algebra; Statistics and Data Analysis; Calculus I & II

SKILLS

- **Programming:** Java, JavaScript, Python, C, HTML, CSS, ARM Assembly
- **Software:** LaTex, Git, Linux commands, IntelJ, VS Code
- **Design:** Procreate, Canva, Illustrator, Figma, Rhino

WORK EXPERIENCE

Princeton Computer Science   January 2024 - Present
Programming Systems Grader   Princeton, NJ
- Conduct code reviews in C and ARM assembly language and provide feedback on projects for 200+ students.
- Evaluate code submissions based on time complexity, memory management, and style to determine effectiveness.
- Debug student projects during weekly 1-on-1 office hours, delving into technical topics to enhance student learning.

McGraw Center for Teaching & Learning   September 2023 - Present
Computer Science & Mathematics (STEM) Tutor   Princeton, NJ
- Host collaborative study sessions for Calculus I and Algorithm/Data Structure, offering exam prep, homework aid, time management tips, and problem-solving strategies, benefiting 60+ students weekly.
- Conduct weekly individual tutoring sessions, helping students understand lecture concepts as well as sharing algorithmic approaches to solve certain types of problems, resulting in increased exam scores by one letter grade.

Codology *(Startup Incubator for High School Students)*   August 2023 - Present
Program Coordinator   Remote
- Aid high school students in running their startups by producing 20+ educational videos on data structures, fixing 50+ website bugs, and giving feedback on new computer science modules.
- Coordinated 5+ interactive events, engaging over 100 participants in webinars, workshops, and hackathons.

Salisbury University   May 2023 - August 2023
Big Data Researcher   Salisbury, MD
- Enhanced understanding of social network structures by utilizing topological data analysis on the "Social Circles: Facebook" dataset with over 88,000 edges.
- Developed algorithm using NetworkX, Giotto-tda, and Matplotlib libraries to identify structural patterns in social networks to aid in targeted marketing and content recommendations.

PROJECTS

Autocomplete *(Java)*   February 2023
- Implemented a program that optimizes search efficiency by suggesting relevant queries in descending weight.

Touring New York *(Java)*   December 2022
- Engineered a program using JavaSwing framework that assists NYC's tourists by showcasing 4000+ seating locations, eliminating the need for online searches.

ACTIVITIES & AFFILIATIONS

Activities: Robotics Club, Princeton AI Alignment, Badminton Club, Entrepreneurship Club (Design Team), Art Club
Affiliations: CodePath, Society of Asian Engineers, SEEDS Alum & Volunteer