Sheel Shah

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Objective

Arlington Tech junior with formal engineering and computer software training seeks an engineering internship.

Education

Northern Virginia Community College *(Dual Enrollment)*   Arlington, VA
Associates Degree, Computer Science   Expected May 2025

Arlington Career Center - Arlington Tech   Arlington, VA
Advanced Studies Diploma   Expected June 2025
- Arlington Tech is a project-based learning high school program that prepares students for the workplace by teaching collaborative problem-solving through real world applicable projects.

Experience

Sugarlabs   New York, NY
Intern   January 2022 - present
- Programmed Version 4 of [Music Blocks](#) (a collection of manipulative tools for exploring fundamental musical concepts in an integrative and fun way for children) using TypeScript.

Texas A&M University   September 2022 - present
Research assistant - Marine Biology
- Contributed to [Dr. Preston Zhang](#) [doctoral thesis](#) titled "Computer vision-assisted photogrammetry and one-image 3D modeling in marine mammals".
- Developed an [Artificial Intelligence](#) (A.I.) algorithm to detect and extract dimensions of porpoises to draw inferences about their existence and health.

Carnegie Mellon University: Heinz College   July - August 2023
Intern
- Developed an assignment (an AI program to play [Tic-tac-toe](#) using the monte-carlo tree search algorithm) for [Introduction to Artificial Intelligence](#) class instructed by Professor [David Steier](#).

Arjuna Consulting   June - August 2022
Intern
- Built various machine learning models to optimize fundraising for not for profit organizations and analyzed disparate donor datasets to identify the extent of correlation among variables that aided strategic decision making for Arjuna Consulting.

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Leadership & Service

Arlington Soccer Association   March 2022 - October 2023
Leadership Council member
- Participated in the Players First Leadership Council. We organized a "Soccerthon" that raised $40,000, organized player clinics, provided feedback on club uniforms, social media planning, and are in the process of making a video to increase awareness of safety issues (e.g. abuse/bullying of student referees).

Advocacy for Safety of Students   December 2019
- Corresponded with Arlington Del. Patrick Hope to explore options to restrict gun sales in the neighborhood of Dorothy Hamm Middle School.

Projects

- ***Dijkstra Algorithm Implementation***: Programmed a pathfinding algorithm used to find the shortest path from one node to another (similar to Google Maps navigation algorithm) in order to traverse a maze.
- **Website**: Designed a website using HTML CSS and JavaScript.
- ***GitHub***: Includes some of my other projects.

Awards & Recognition

- 2nd place in Python Programming at the Wakefield Tech Expo, 2023
- Certificate of Completion from The AI Scholars Program by Inspirit AI, 2023
- Featured in an article titled "What Exactly is Arlington Tech" by the Arlington Magazine, December 2022
- Technical Achievement Award for Dual Enrolled (DE) Computer Programming, 2021-2022 and 2022-2023
- Academic Merit Award, Arlington Tech, 2021-2022
- Honor Roll, Arlington Public Schools, 2015 - 2022
- 2nd place in The Northern Virginia Regional Virtual Science & Engineering Fair for Physics and Astronomy, 2020-2021
- Distinguished Achievement 3rd Place Award (Science Fair), Commissioned Officers' Association of the U.S. Public Health Service, 2020-2021
- MathDice Outstanding Performance, Arlington County Competition, 2018
- Continental Math League 3rd Place, 2015-2016
- Arlington Traditional School Reflections Award of Excellence, 2016