

# SHIVAANSH BHATIA

Software Developer Intern (Availability: Flexible)

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## EDUCATION

### Bachelors of Science (Computer Science)

University of Alberta

📍 Edmonton, Alberta

Sept 2021- Dec 2025

#### Courses-

fundamentals of computation      Search and Planning in AI      Algorithmics in practice      Data Structures  
File and Database Management      Logic in Computing Science      Basics of Machine Learning      programming methodology

## CERTIFICATIONS

Core Java certified      Google Introduction to LLM      AWS Cloud Practitioner (in progress)  
Software Development on SAP HANA      IBM introduction to Data Analysis

## PROJECTS

Portfolio Website- <https://shivaanshbhatia.com>

### AI Multi-Agent Pathfinding | - (Python, HTML/CSS/JavaScript, API, Django)

- Python Script in backend uses interactive front-end to perform Single or Multi Agent Pathfinding.

- Can find paths for up to 10 agents on the grid using A\* algorithm.
- Intuitive and easy-to-use front-end helps place various agents on the grid.
- Automatically navigates through the constraints and agent collisions using Constraint Based Search and A\*.

### GitHub README Automation Script | [Link](#) - (Python, API, Git, JSON)

- Organizes contents of repository into tabular format automatically using markdown

- Wrote a Python script to automatically update README files in GitHub repositories with markdown tables.
- Incorporated GitHub's RESTful API for file structure retrieval and README updates.
- Streamlined documentation process, ensuring up-to-date repository overviews.

### Stock Management | [Link](#) - (Java, SQL, MYSQL, JDBC)

- An interactive software that simulates the stock tracking and sales for a small business.

- Implemented role-based feature access and comprehensive order management capabilities.
- Enabled 2-mode version with admin user and employee-level functions.
- Integrated unique billing identifiers within the POS system for efficient order tracking.

### Flag Quiz Game | - (Python, Pygame)

- provide an interactive learning experience and assess geographical knowledge of 193 countries.

- Created a Python-based educational game using Pygame to test user's knowledge of global flags, 16% faster than last update.
- Implemented a GUI for intuitive gameplay and included 3 difficulty levels for progressive learning challenges.
- Featured a summary report showcasing scores, incorrect responses, and correct answers for self-evaluation.

## SKILLS

Languages	Python, C, C++, HTML/CSS, Javascript, Java
Web Development	SQL, NoSQL, React.js, Node.js, MongoDB, RestAPI, JSON
Tools	Linux/Unix, Github, Git, VSCode, SSH, Microsoft Suite
Libraries	OpenCV, Pandas, Numpy, Matplotlib
Practices	SDLC, Agile, OOPS, CI/CD pipelines, Distributed systems
Soft Skills	time management, communication skills, Ability to handle multiple tasks, project management

## VOLUNTEER

### Events Crew Photographer

University of Alberta Student Union

📍 Edmonton, Alberta

March 2023- present

- Capture over 1000 pictures covering essential moments and group tasks at events, ensuring comprehensive coverage.
- Cataloged and archive photographs for easy access and future use.
- Edit images for optimal exposure and quality using professional software.