

Shah Emran

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EDUCATION

U OF COLORADO BOULDER

MASTERS IN COMPUTER SCIENCE

Jan 2025 | Present

GREEN RIVER COLLEGE

BAS IN SOFTWARE DEVELOPMENT

Sep 2016 | Jun 2021

LINKS

Github:// shah

LinkedIn:// shahemran

Website:// shahemran

COURSEWORK

GRADUATE

Dynamic Programming

Greedy Algorithms

Approximation Algorithms

Linear programming

Advanced-Data Structures

RSA and Quantum Algorithms

Introduction to Deep Learning

Modeling of Autonomous System

UNDERGRADUATE

Algorithms and Data Structure

Operating Systems

Artificial Intelligence

Functional Programming

System Programming

Design Patterns

Web Programming

Object Oriented Programming

SKILLS

PROGRAMMING

Proficient:

Python • TypeScript • PHP • JavaScript
• Matlab

Experienced:

Java • CSS • Tailwind • SQL • Jest •
Playwright • Next.js • React

Knowledgeable:

AWS • Azure • .Net • C++

AWARDS

Green River Foundation Scholar

Daily Star Awards for O/A levels

Chief of Air Staff Crest for Science

EXPERIENCE

UMPQUA BANK | SOFTWARE ENGINEER

Jan 2022 - Jun 2024 | Tacoma, WA

- Led and shipped branch locator system for 300+ locations.
- Built and deployed an admin interface for the new employee intranet.
- Wrote and reviewed code for real-time branch information and interactive mapping interface.
- Collaborated in an Agile environment, managing version control with Git and implementing CI/CD practices to streamline deployments.

WARSAKEN GAME APP | FULL STACK INTERN

Jan 2021 - Mar 2021 | Auburn, WA

- Developed responsive home and profile page with Apache Cordova.
- Implemented an authentication system to improve security and user access.
- Integrated Firebase services, enabling real-time data sync.

NEWSLYME APP | DEVELOPER INTERN

Sep 2020 - Dec 2020 | Auburn, WA

- Designed and developed a real-time news dashboard using React and Redux.
- Deployed backend infrastructure with AWS DynamoDB, enabling scalable data storage to support user activity on the NewslyMe app.

CODEDAY | DEVELOPER & TEAM LEADER

Jun 2020 - July 2020 | Auburn, WA

- Developed a robust and scalable library by leveraging StencilJS to produce high-quality JavaScript code.
- Created an e-commerce web components library to accelerate development and deployment.
- Led a team of developers from Georgia Tech and Minerva on the project.

PROJECT

SATELLITE TRACKING PORTAL

I built a real-time satellite tracking web app using React (Three.js) for 3D visualization and Python for orbital calculations, with PostgreSQL for data storage. Features include custom tracking lists, pass predictions, and satellite coverage visualization.

DAYSIDE LLC

Designed and developed a responsive, data-driven website for a leadership and management consultant. Technologies include PHP, MySQL, HTML, Bootstrap, CSS, JavaScript, and jQuery.

PORTFOLIO

Developed a portfolio website with Next.js to share writings and track books I'm currently reading and have completed.

RESEARCH

UNIVERSITY WEST | UNDERGRADUATE RESEARCHER

Jan 2016 - Jun 2016 | Trollhattan, Sweden

Developed algorithms for a simulation to detect deformed nails on wooden pallets using IR cameras and various lighting conditions.