

# 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  
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.