Cole Stine

cstine1234@gmail.com | 724-831-9126 | https://colestine.com

EDUCATION

Georgia Institute of Technology
Currently Pursuing Master of Science in Computer Science (Online Part-Time)

The Pennsylvania State University, University Park
Bachelor of Science in Computer Engineering & Minor in Mathematics

PROFESSIONAL EXPERIENCE

Northrop Grumman Corporation

Software Engineer — August 2022 – Current
Scrum Master — April 2023 – October 2023

- Collaborated on a 14 person agile development team focused on geospatial visualization and mission planning software.
- Designed, implemented, and tested multiple micro-services used across various teams and user interfaces.
- Led and facilitated UI reviews with software engineers, designers, and end-users to refine completed work, resolve challenges, break down features, and plan future development efforts aimed at enhancing product functionality.
- Implemented UI designs, proactively providing feedback and proposing solutions to optimize and define future development work.
- Lead our development team through company-wide quarterly planning events, iteration cycles, coordinated seamless cross-team collaboration, and cleared obstacles to ensure the timely and successful completion of promised work.
- Spearheaded weekly customer status updates, orchestrated bi-weekly planning meetings to align on sprint objectives, and led daily team stand-ups to bolster communication, confidence, and collaboration within the team.

DICK'S Sporting Goods, Inc.

Software Engineer I — June 2021 – August 2022
Software Engineer I Part-Time — January 2021 – June 2021

- Took charge as the primary engineer overseeing an internal C#/.NET API tasked with retrieving data from SAP Ariba and leveraging that data to generate .CSV files, allowing business partners to make informed decisions regarding payments.
- Continued development of a mobile application tailored for the Construction and Facilities Team, integrating a React Native front-end, C#/.NET back-end, and a MySQL database. This application allows employees to effortlessly conduct comprehensive quality checks of stores using their iPad. They can add budget information, capture images, input contractor details, and various other pertinent data into their reports, ensuring thorough and consistent reports.
- Developed a COVID-19 self-assessment application that uses an Angular front-end, C#/.NET back-end, a Microsoft SQL Server, and MySQL database. This application was used company-wide, determining safety levels of employees in stores and offices based on any present symptoms of COVID-19 or other factors that would lead to safety concerns.
- Developed an Angular web application that allows our business partners to check the delivery status of multiple FedEx packages at one time using FedEx APIs via a generated .CSV file or via the web application.

TECHNICAL SKILLS AND FRAMEWORKS

- JavaScript
- TypeScript
- Python
- C#
- Java
- React
- React Native
- Angular
- Node.js
- Spring Boot
- Kubernetes
- Docker
- MySQL
- PostgreSQL
- Agile
- Scrum

PROGRAMMING PROJECTS

Brazilian Jiu Jitsu Community
- Developing a full-stack application using React, Node.js, and PostgreSQL aimed at fostering a sense of community within the gym that would enable coaches to track student progress through customizable metrics like escapes, submissions, and sweeps from common positions. Coaches can also make posts to their members to keep them active and connected.

Game Artificial Intelligence
- Developed multiple projects using C# and Unity, incorporating classic AI concepts to enhance user gameplay experiences. These projects featured Game AI techniques such as agent movement, path planning, decision making, goal-oriented behavior, and procedural content generation.

Machine Learning For Trading
- Developed and implemented various machine learning algorithms, including linear regression, Q-Learning, decision trees, random trees, and random forests, using Python.
- Applied machine learning models and quantitative indicators to perform in-depth analysis of stock market data, designing a trading strategy aimed at outperforming the S&P 500 based on model-driven buy/sell signals.