

# SHREYASH RANJAN

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## EDUCATION

- ❖ **UNIVERSITY OF PITTSBURGH** **PITTSBURGH, PA**  
*BS Computer Science, Minor in Statistics* *GPA: 4.0/4.0* *EXPECTED GRADUATION: MAY 2026*

## PROFESSIONAL EXPERIENCE

- ❖ **LOCKHEED MARTIN** **ORLANDO, FL**  
*CYBER--SOFTWARE ENGINEERING INTERN* *APRIL 2022 – PRESENT*
  - Saved over \$500K in annual cost savings by implementing cloud cost controls using AWS Cost Usage Reports (CUR) and developed cost dashboards with Athena and Tableau to present insights to senior management.
  - Enhanced the security, efficiency, and resiliency of a government AWS cloud infrastructure by implementing strategic optimizations using AWS boto3 and Moto.
  - Collaborated with DevOps engineers to enhance system features by implementing code quality controls via service control policies (SCPs) using AWS Config. Employed Test-Driven Development (TDD) practices to ensure robustness and reliability.
  - Containerized workflow code through Dockerization, seamlessly integrating it into the existing AWS infrastructure using robust CI/CD pipelines.
- ❖ **LOCKHEED MARTIN** **KING OF PRUSSIA, PA**  
*SOFTWARE ENGINEERING INTERN* *JUNE 2021 - APRIL 2022*
  - Crafted dynamic web applications for Rotary and Mission Systems IT using full-stack web development expertise within an Agile framework, contributing to streamlined processes and enhanced user experiences.
  - Partnered with cross-functional teams to design and implement a user-centric webpage, empowering Engineering Organizations to adeptly track and manage problem reports, thereby optimizing workflow efficiency.
  - Revitalized a pivotal webpage facilitating seamless communication between Sikorsky and suppliers. Implemented robust versioning and source control mechanisms using TFS and Git, significantly boosting collaboration, efficiency, and overall project success.
- ❖ **INVESTIQ** **LANSDALE, PA**  
*FOUNDER* *DECEMBER 2022 - JUNE 2023*
  - Developed a stock market predictive machine learning model using Python to train and refine the model on historical market data and key technical indicators resulting in a far higher percent return than industry norms.
  - Implemented and integrated APIs to efficiently retrieve and process large datasets, leveraging neural network code for accurate and reliable predictions.

## AWARDS

- ❖ **BLADE TIP DETECTION** **LOCKHEED MARTIN**  
*1<sup>ST</sup> PLACE: CHALLENGE OF THE RMS CDAO & DX* *JULY 2021*
  - Enhanced machine learning model accuracy by incorporating Tensorflow data augmentation techniques. Developed a specialized model to accurately identify the tip of a helicopter blade, crucial for verifying weapon field-of-fire in relation to main rotor blade tips.
- ❖ **CHIRP CHAT** **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**  
*RESEARCH PAPER PROPOSAL* *JANUARY 2023*
  - Proposed and led the development of an iOS application utilizing AI to identify and transcribe songs of numerous bird species in the New York Area. Designed for real-time analysis and user-friendly comparison of transcriptions.
- ❖ **KOLB ACADEMY** **MOBILE APPLICATION DEVELOPMENT**  
*1<sup>ST</sup> PLACE INTERNATIONALLY* *SEPTEMBER 2021 - JUNE 2022*
  - Designed and deployed a feature-rich mobile app enabling students to efficiently organize schedules, access educational materials, and establish communication channels with instructors. Leveraged React Native for front-end and Python for back-end development, utilizing a REST API to facilitate seamless interactions.
  - Strengthened app security through the integration of federated identity protocols (OAuth), delivering robust authentication and authorization mechanisms. This enhancement contributed to a secure experience.
  - Employed the Serverless Application Model (SAM) to optimize scalability and performance, resulting in a highly efficient and scalable application architecture.

## TECHNICAL PROFICIENCIES

- **LANGUAGES:** Java, JavaScript, Python, C# (Unity, .NET), C, SQL, HTML5, CSS
- **LIBRARIES/Frameworks:** Angular 9, Node.js, React, pandas, React Native, PyTorch, Docker, Agile
- **AMAZON WEB SERVICES:** EC2, Lambda, API Gateway, CloudFormation, S3, RDS, Elasticsearch, Config