Ryan Koepke

ryan.koepke@outlook.com, (228)-243-0261

Riverdale, MD

Education

University of Maryland	**College Park, MD**
BS: Computer Engineering	Expected May 2024
Coastline Community College	**Fountain Valley, CA**
AA: Supervision and Management Dec 2014	December 2014

Work Experience

ASRC Federal Holding Company	**Suitland, MD**
Satellite Engineering and Operations, *Product Engineer*	Jan 2019 – Feb 2022

- Collaborated with a cross-functional engineering team to monitor 16 spectral bands of the GOES-R Advanced Baseline Imager (ABI), identifying defective sensors, and facilitating their timely replacement, maintaining satellite imagery operations with zero downtime.
- Integral team member in developing and optimizing Python applications for image analysis. These applications enabled automated detection of image anomalies, streamlining corrective actions, and significantly reducing man-hours traditionally spent on anomaly identification.
- Initiated the development of web-based interfaces using JavaScript for real-time monitoring of anomaly logs, enabling prompt and informed data-driven decision-making.

United States Navy	**Millington, TN**
Meteorological and Oceanographic Forecaster, *Supervisor*	Aug 2006 – Apr 2016

- Led a nine-person oceanographic watch floor, utilizing Geographic Information System (GIS) software to optimize the production of 3,000 oceanographic and acoustic products, enhancing awareness of the ocean environment for submarine operations.
- Prepared and briefed 1,500 comprehensive weather forecasts and 27 climatological reports, providing crucial insights into impacts from environmental conditions on personnel and equipment, resulting in zero safety incidences.
- Supervised a $2.5 million inventory of electronic surveillance equipment, directing the deployment, calibration, and maintenance, which included small unmanned aerial vehicles. Maintained optimal functionality and upheld precise data accuracy.

Technical Project Experience

- Developed a BitTorrent client in Python. Implemented key features for peer discovery, data integrity checks, and protocol optimization.
- Implemented a secure chat client and server in Python incorporating cryptological algorithms for advanced file-sharing capabilities.

Technical Skills

- **Software Engineering**: Python, C / C++, Java, JavaScript
- **Hardware Engineering:** Microcontroller programming, Embedded Systems, Verilog
- **Cryptography:** Cryptological Algorithms, Security Protocols, Encryption and Decryption
- **Networking and Communication:** TCP/IP Networking, Network Protocols, Routing