Rishi Neil Randeri
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PROFESSIONAL SUMMARY

- Software Engineer with experience developing full-stack web applications and automation tools supporting FAA surveillance systems at L3Harris Technologies. Experienced in Python, Django, MySQL, JavaScript, and systems engineering. Passionate about backend development, software architecture, and building reliable engineering tools that improve efficiency.

TECHNICAL SKILLS

- Languages: Python, Java, JavaScript, MySQL/PostgreSQL, HTML/CSS
- Frameworks: Django, Vue.js, Xstate
- Tools: Git, JIRA, Confluence, Bitbucket, Linux

RELEVANT EMPLOYMENT

Software/Systems Engineer **Herndon, VA**
L3 Harris Technologies | Surveillance and Broadcast Services *June 2025 - Present*

- Developed and maintained the Adaptation Database (ADB) Subsystem for the FAA's Surveillance and Broadcast System (SBS)
- Responsible for the full life-cycle development of the ADB; used Django Web Framework with a Python and MySQL backend, and frontend languages to develop a full stack web application that allows relevant teams to interact with System Engineering data and generate configurations for the National Airspace (NAS)
- Responsible for management, development, and security of the backend MySQL database to ensure that all data is current and accurate.
- Integrated the ADB with the GENESYS API, which contains relevant Service Volume Engineering data, such as Radio Stations, Service Volumes, Service Delivery points, and other Systems Engineering data.
- Redesigned the GENESYS data ingestion pipeline, reducing import time from approximately 60 minutes to approximately 7 minutes (88% reduction)
- Improved engineering productivity by enabling significantly faster synchronization of NAS configuration data
- Authored Tool Operational Requirements documentation for new Split Radio Software, which adheres to DO-330 policies

Software Engineering Intern **Herndon, VA**
L3 Harris Technologies | Surveillance and Broadcast Services *June 2024 - Aug 2024*

- Developed python scripts to automate testing of new Split Radio software
- Improved length of testing from 40 minutes to 20 seconds (~99% improvement) for two sections of the testing documentation, which covers 25% of the document.
- Scripts took in a PCAP file, given by ADS-B radios, decoded it into a CSV file and analyzed it to output specific testing requirements for those steps.

PROJECTS

XState Builder for Capital One | *Vue, PostgreSQL, XState, Slack, Github* **Sep 2024 – May 2025**

- Developed a full-stack workflow builder for Capital One using Vue.js, PostgreSQL, and Xstate to generate event driven state machine definitions
- Designed the backend relational database schema
- Application utilizes XState to efficiently model and build a workflow representation of a user's event-driven process, based on their requirements
- Includes an intake form that collects information from users and outputs the definition file using XState
- Integrated backend database with frontend application

EDUCATION

Virginia Commonwealth University | College of Engineering **Richmond, VA**
B.S. Computer Science | Concentration: Software Engineering *Aug 2022 - May 2025*

Georgia Institute of Technology | College of Computing **Remote**
M.S. Computer Science | Specialization: Computing Systems *August 2026 - Present*