

# Nick Murray

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## TS/SCI Cleared Software Engineer

### EXPERIENCE

**Software Engineer, Aerovironment, Centreville, VA** **2023 - 2024**

- NITF / Image / Detection Processing in a Classified Environment
- Rewriting inefficient back-end systems (Python) into modern languages (Rust)
- Optimizing Python performance, database interfaces (Postgres and qdrant),
- Deploying and maintaining fleets of containerized Docker images, unix environment
- Responsibility for QA and bugfixing the final product

**Software Engineer, Maxar, Ypsilanti, MI** **2018 - 2022**

- Agile Software Development and Satellite Image / NITF Processing in a Classified Environment
- Lead and maintained plugin development for Socet GXP and RemoteView – C++, Electron
- Rewrote core processing image processing as distributed computing using MPI in C++
- Wrote and maintained Python regression suite for intermediate image products

**Teacher's Assistant, University of Michigan, Ann Arbor, MI** **2015 - 2018**

- EECS 183 (Intro to Programming)
- Taught beginner-level Python and C++, lecturing, troubleshooting, IT support for 1,000+ students
- Ran Markov Chain learning model AI Python final project

**Intern, Arbor Networks, Ann Arbor, MI** **Summer 2016**

- C++/Python development on Arbor's anti-DDOS TMS software team
- C++/Python development and QA on Arbor's anti-DDOS TMS software team

**Intern, QuadMetrics, Ann Arbor, MI** **Summer 2015**

- Developed Raspberry Pi botnet to scan network ports and vulnerabilities using Python and Bash
- Administered Linux systems using command line interfaces

### EDUCATION

**Bachelor of Science in Computer Science, The University of Michigan** **2018**

### SKILLS

- C/C++, Python, Bash, Rust, Docker, git, Unix, Latex, vim, aws/boto
  - Active TSI/SCI Security Clearance
- 2020 - Present**

### MISCELLANEOUS

- Jean Fairfax Scholarship Recipient **2013**
- National Hispanic Merit Scholar **2013**
- Mandarin Chinese (HSK Level 4) **2013**
- 4th Degree Black Belt in Taekwondo, Asian Sun Martial Arts **2014**

### CONTACT INFORMATION

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