HECTOR COLON

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Detailed-oriented developer focused on shipping high-quality, efficient code. Experienced with writing small proof-of-concept programs from scratch, as well as working on mature codebases. In my free time I like to solve math problems I come across on youtube as well as tinker with interesting new software libraries: github.com/hectorhector

PROFESSIONAL SKILLS

Skills: C, C++, C#, Python, Visual Studio, Git, Github, Bitbucket, Linux (gcc, vim, make, etc.), Google Test, Docker, Coverity, TeamCity, Embedded Development

EXPERIENCE

GARRETT MOTION (spun off from Honeywell)   **Atlanta, GA**
Technical Lead   *October 2018 – Present*
After our team was spun off from our previous employer, I led a small group of developers and data scientists in transitioning our automotive cybersecurity product from a proof-of-concept to a market-ready solution, ultimately bringing it into production. Our embedded software was written in C, our tooling in C++, and scripts in Python/Bash.
- Ported code to new Hardware/Software platforms and went on customer visits to perform in-person integrations
- Implemented customer feature requests (e.g. storing security alerts with SQLite, writing custom algorithms, etc.).
- Developed our C++ unit testing framework based off GoogleTest and led effort to ensure 100% unit-test coverage
- Developed a Python ctypes library to expose our C codebase to our data science team's Python toolchain
- Managed and reviewed Pull-Requests, administered the Continuous Integration system, and was responsible for software releases (aggregating the release notes, collecting performance data, updating documentation, etc.)

HONEYWELL   **Atlanta, GA**
Software Engineer   *November 2016 – October 2018*
Developer on a cybersecurity product which monitored the in-vehicle network traffic in automotive applications and reported anomalies to our cloud-based aggregator.
- Designed and implemented new algorithms to detect malicious network traffic
- Developed the C++ "Ruleset Compiler" which transformed our JSON configuration file into a compact binary model which would then be flashed onto the hardware
- Met with potential customers to provide demos and assist with performance evaluations

ECHOSTAR   **Atlanta, GA**
Engineer II   *November 2011 – August 2016*
Embedded Linux Developer on a small team working on various Satellite TV set-top-boxes. Eventually moved to developing a TV-based Home Automation Hub, and focused mostly on implementing security camera playback.
- Implemented updates to the set-top-box's Smart Card security for pay-per-view events
- Designed and wrote ability to view security cameras footage on the Home Automation Hub (live and recordings)
- Wrote and maintained an FCGI daemon to allow the WebKit based UI to interact with other processes

HOSTDIME   **Orlando, FL**
System Tech   *April 2010 – November 2011*
Technician at the main datacenter of one of the top 50 web hosts in the world. Responsible for basic system administration and troubleshooting of customer's web servers. While there, I took the initiative to write an Android App to automate common tasks and view customer requests while on the datacenter floor.

EDUCATION

UNIVERSITY OF CENTRAL FLORIDA   **Orlando, FL**
B.S. Computer Engineering   *May 2011*