


ROBERT MASCITELLI

 robertmascitelli@gmail.com

 [linkedin.com/in/rmascitelli](https://www.linkedin.com/in/rmascitelli)

 [rmascitelli.github.io](https://github.com/rmascitelli)

 (647) 618 6568

PERSONAL SUMMARY

Passionate, results-driven **Software Engineer** with an academic background in **Computer Engineering**. Offering 4+ years of experience driving **product-focused** software development, debugging, and optimization activities in Film and Broadcast technology, as well as cybersecurity. Current interests surround distributed systems and containerization.

SKILLS AND PROJECTS SUMMARY

Technical Skills:

- **Coding Languages:** Golang, C and C++, Python, JavaScript, Bash, Powershell
- **Tools:** AWS (S3, EC2), Docker, SQL (Postgres), noSQL (MongoDB), GraphQL, Grafana, Prometheus, DataDog

Spoken Languages: English, French (conversational)

PROFESSIONAL EXPERIENCE

Software Engineer | Rapid7 Inc. – Toronto, ON **Jan 2021 - present**

- **Tech Stack:** Go, Python, C++, Grafana, AWS (S3, EC2)
- Designing new features and functionalities in Golang and Python for endpoint security solutions. Worked on an Agile team managing over 15 million Windows, Mac, and Linux users worldwide for a global cybersecurity company.

Key Achievements:

- ✓ Led the design and development of my team's CI/CD pipelines. Introduced automated testing, package management and customer observability services to eliminate 4+ days of tedious manual work required to release product updates. Developed using Python, AWS, Jenkins and Grafana
- ✓ Built a C++ API library (later called through Python ctypes) to collect security events on MacOS using the EndpointSecurity API. Prevented us from losing 2 million MacOS customers
- ✓ Improved performance of Grafana dashboards by proposing and developing changes to metrics storage – allowing us to scale up to monitoring 10x the customers without performance degradation of dashboards
- ✓ Significantly decreased time, effort and back-and-forth associated with solving Customer Support tickets by developing collection of dashboards (using Python and Plotly) to parse and visualize logs and log metrics.

Embedded Software Designer | Evertz Microsystems – Burlington, ON **Jan 2019 – Sept 2020**

- **Tech Stack:** C and C++, Python
- Produced various features in C and C++ for embedded devices running Linux for the leading global manufacturer of broadcast equipment that delivers content to TV sets, on-demand services, mobile devices, WebTV, and IPTV.

Key Achievements:

- ✓ Developed a loadable kernel driver that allowed the embedded devices to be managed by a new Controller Area Network (CAN) bus peripheral. Also built a web interface using C++ to administer the peripheral features
- ✓ Devised a class hierarchy in C++ to implement devices described in AMWA NMOS media specifications and created a Python script to automatically compose header files that was adopted by 2 developers across 10 products

Technical Systems Analyst Co-Op | RBC – Toronto, ON **May 2016 – August 2016**

- **Tech Stack:** PHP, Bash, SQL, Kibana
- Designed ETL scripts in PHP and Bash for querying SQL databases, processing and sending results
- Introduced dashboards using Kibana to help stakeholders visualize and interpret data from ETL scripts

EDUCATION SUMMARY

BEng in Computer Engineering | McMaster University – Hamilton, ON **Graduated Dec 2018**

Relevant Coursework: Digital Systems Design | Systems Programming (C/C++) | FPGA Development (Systems Verilog)