Tony **Tascioglu**

Software Engineering Candidate · Software Developer

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Summary_

Languages: C, C++, Java, x86/ARM, Python, Arduino, Bash, JS, PHP, Go, Bitbake Software: Git, Vim, VSCode, Docker, React, Vue, Drupal, NGINX, Apache, Ansible, AWS Technologies: Linux, Embedded Systems, Open Source, AV, CLI, Networks, Security Relevant Courses: Operating Systems, Intro to Compilers, Data Structures, Algorithms, Digital Computers, Computer Networks, Concurrent Programming, Security and Privacy

Awards:

(2018) Principal's Award, L'Amoreaux CI (2018) Citizen of the Year Award, L'Amoreaux CI (2017) 21st Century Technology Award, L'Amoreaux CI (2014) Principal's Award, S.E. Macmillan SPS

Experience

Software Developer at **Advanced Micro Devices (AMD)**

Sep 2022 - Dec 2022, Markham

- Kernel mode C/C++ graphics driver development as part of the DAL (Display Abstraction Layer) team working on New Technology Introduction.
- Worked on innovative display features such as Smart Access Graphics allowing laptop displays to switch between integrated and dedicated graphics.
- Reduced display mux switch times by almost 50% to under 2.75 seconds, fastest in the industry, allowing a truly seamless experience switching GPUs.
- Analyzed performance of hybrid graphics gaming features such as FreeMux and CASO through thorough benchmarks and different scenarios.

Embedded Software Developer at Imagine Communications

Jan 2022 - Apr 2022, Toronto

- Embedded software development adding features using C, C++ and Java for the Selenio Network Processor, and in particular, for audio processing.
- Designed and implemented virtual audio channel routing for 512 channels for the new AAP feature used for major TV & professional broadcasts.
- Implemented audio gain controls for the DSP inputs with new robust PCM detection logic to improve reliability while reducing costs for customers.
 Worked on improving partial JSON support for new AAP API, including new logic to use the channel IDs to process requests instead of index.

Linux Developer at Wind River Systems (Wind River Linux)

May 2021 - Aug 2021, Ottawa

- Maintained Wind River Linux userspace through numerous patches to the Yocto Project, OpenEmbedded and other open source projects.
- Implemented new application recipe including package test support and broad compatibility which were accepted upstream into meta-oe.
- Responsible for packages including chromium and valgrind, as well as CVE fixes for other applications such as libxml2, redis and ffmpeg.

Full Stack Developer at Designware

Sep 2020 - Dec 2020, Waterloo

- · Full stack frontend and backend development using Vue, HTML+CSS, Go and PostgreSQL throughout the product.
- Redesigned re-implemented pages and menus in user dashboard for release of product using Vue & CSS to improve UX and add features.
- Implemented frontend, backend, and API for new features such as queuing in-app updates for exported builds and a new publishing sidebar.

Software Engineer Intern at **Venngage**

May 2019 - Aug 2019, Jan 2020 - Apr 2020, Toronto

- Full stack development using React, Redux, jQuery, PHP, CodeIgniter, NodeJS, Express, MySQL to implement new features and innovative project.
- Implemented features such as Excel Spreadsheet uploading in the editor, templates page CDN and improvements to the chart widgets.
- · Worked on the new Favourite Templates front-end and back-end, as well as the new Brand Kit UI. Performed category releases.

Hobbies, Projects and Activities

Open Source Contributions to RenderDoc at Team Objective

Sep 2021 - Current, Waterloo

- Contributed new features to the RenderDoc open-source graphics debugger with our final year capstone project group (5 students.)
- Implemented the "Pixel History" feature for the OpenGL Graphics API, along with all of the necessary OpenGL tests and logic.

Linux, Computers and Networks and Security

Sep 2014 - Current, Toronto

- Expertise using a variety of Linux systems including servers and personal computers with distros such as Debian, RHEL, SUSE, Arch and Gentoo.
- Experience with networking stack and layers, TCP/IP, sockets, software such as PFSense and hardware such routers and managed switches.
- Deep understanding of computer hardware and software as well as setting up and managing servers for a variety of applications.
- Experience with the command line, security concepts and exploits such as buffer overflows and XSS as well as tools such as metasploit.

Microcontrollers, Electronics, and Technology

Sep. 2013 - Current, Toronto

- Experience programming using C & Arduino for Atmel, PIC, ARM microcontrollers and microprocessors such as the Raspberry Pi and ODroid N2.
- Built projects like smart dashboard using an ESP8266, ATTiny, to load data from my backend and display it over I2C LCD and OLED displays.
- Created an IOT system using ESP8266 to trigger relays from both a TFT touchscreen or phone app created using Android Studio as a design project.
- YouTube channel featuring electronics and software tutorials, technical explanations and other technology content, with over 410,000 views.

Education