JESSE CARTER

SOFTWARE ENGINEER

/ CONTACT DETAILS

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/ ALL ABOUT ME

Software Engineer developing clean, performant code for a wide range of companies and industries, who likes to have a laugh along the way.

/ PERSONAL PROJECTS

NBA Stats (2021)
- Using Django's CORS package and REST framework to scrape the web for NBA stats, store them using PostgreSQL, and serve them up to a React frontend.

Spotify Playlists (2021)
- Using React, JS and Spotify's API to search for songs, artists, or albums, add them to a playlist, and save that playlist to your Spotify account.

/ EDUCATION HISTORY

>> Bachelor of Computer Science | 2019
Dalhousie University | 09/2014 - 04/2019

>> Co-op Certification | 2019
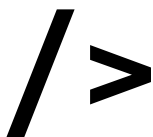Dalhousie University | 09/2016 - 04/2019

/ AUSTRALIA 417 VISA
08/2019 - 04/2020

>> Construction Worker
Amrick Pty Ltd | January 2020 - March 2020

>> Bartender
Melbourne Public | September 2019 - March 2020

/ COMPETENCIES

- Python
- JavaScript
- React
- HTML/CSS
- SQL
- Docker
- Ansible
- UNIX
- Data Structures/Algorithms

/ WORK EXPERIENCE

>> Junior Software Engineer
CIRA | May 2021 - Present
Writing clean, performant code to create containerized microservices and apps for cutting edge IoT security, provisioning, and management solutions.

- Implemented a Certificate Authority microservice using the CMP protocol in Python in accordance with RFC 4210.
- Helped architect and implemented a Python API for IoT device provisioning and management as part of CIRA's Secure IoT Registry Project.
- Deployed, configured, networked, and maintained multiple project environments, servers, and backend infrastructure to support a variety of POCs including services such as PostgreSQL, Keycloak, PowerDNS, and NGINX.

>> Junior Software Engineer
Intertalk | May 2018 - September 2018
Wrote efficient and reliable C to run on embedded systems used by first responders.

- Developed a polyphase interpolation filter, saving 10% CPU usage on sampling operations, extending the life of both the product's software and hardware.
- Extended software functionality by adding DTMF Knox and other digital signal processing capabilities.

>> Junior Software Engineer
Lockheed Martin | September 2017 - December 2017
Expanded Combat Management System 330 3D display capabilities by writing reusable and well documented Java.

- Increased accuracy of 3D map display by rewriting legacy mapping libraries to better reflect a 3D map projection.
- Enhanced functionality of the CMS 330 map display by creating visualizations for vehicle, ordinance, and object trajectory tracking.
- Wrote python scripts to identify, replace, and update legacy code.

>> Software Tester
Math Resources | January 2017 - April 2017
Tested multiple educational web applications while writing test-case and usage documentation.

- Performed black box testing on several web apps to aid developers and perform project management in JIRA.
- Worked with developers to set deadlines and release goals.
- Maintained, updated, and edited documentation for stakeholders and clients.