

Michael DesRoches

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EDUCATION

University of Nevada, Reno

Bachelor of Engineering, Computer Science

Reno, NV

July 2018 – December 2020

Truckee Meadows Community College

Associate of Science, Applied

Reno, NV

January 2016 – July 2018

PROFESSIONAL EXPERIENCE

Junior Full-Stack Software Engineer

January 2021 – Present

NATA Compliance Services

Reno, NV

- Overhauled the company's Classic ASP.NET API and developed a new web application using ASP.NET Core for back-end and React JS for front-end
- Implemented SQL queries and stored procedure using Microsoft SQL Server 2012 and Entity Framework
- Fabricated enterprise-level components for web application's user interface using React's component library Ant Design
- Operated Sourcetree as a version control system and developed code using Visual Studio and VS Code
- Completed all individual projects and sprints faster than assigned targets and collaborated as an integral part of a 5 person team of software developers
- Constructed solutions for application faults and recorded every solution in a case manager application

Flight Engineer

Oct 2008 – Present

Nevada Army National Guard

Reno, NV

- Participated in *Operation Enduring Freedom* from 2013 - 2014 as an experienced member of a four person crew inside a helicopter whose mission was to provide MEDEVAC duties to on ground personnel operating in Afghanistan
- Performed air-crew duties I.A.W. FAA regulations of the UH-60 Blackhawk air frame as a RL1 crew-chief
- Performed over 900 flight hours, out of which 45 percent of those hours were spent achieving MEDAVAC, Fire, and Search and Rescue operations.

Full-Time Technician

May 2008 - Aug 2016

- Recorded over 3400 maintenance hours across all aircraft, recording processes in Army aircraft record application ULLSA
- Performed scheduled and unscheduled maintenance in accordance with proper training manuals
- Maintained a high operational rate of assigned UH-60 airframe valued at \$5.9 million

Intern

Feb 2020 – Dec 2020

Tesla

Sparks, NV

- Logical programming of robotic systems and electro-mechanical processing equipment
- Ensured the operational availability of a wide array of manufacturing equipment
- Maintained and repaired mechanical and electrical systems, factory automation and robotics
- Diagnosed and identified the root cause of equipment failures and communicated actions taken to the rest of the 12 person team

PROJECTS

Headfirst Design Patterns | *Java, Flask*

Dec 2020

- Fashioned every project in Headfirst Design Patterns book and broadened overall understanding of design patterns
- Created individual projects that utilize a different design pattern and developed a personal project for each chapter to imitate real world like applications
- The design patterns include; Observer, Decorator, Factory, Singleton, Command, Adapter, State, MVC, and Compound Patterns.

TECHNICAL SKILLS

Languages: C/C++, C#, SQL, JavaScript, HTML, CSS

Frameworks: React, Node.js, Ant Design, Bootstrap, Entity Framework

Developer Tools: Git, Sourcetree, VS Code, Visual Studio, Unity