

## **David J. Wehrlin**

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### **Education**     **Colorado School of Mines, Golden, CO ► (Graduated December 2019)**

*Bachelor of Science in Computer Science*

- Emphasis on Robotics and Intelligent Systems
- GPA: 3.66
- Dean's list all four years
- Relevant Courses: Artificial Intelligence, Machine Learning, Computer Vision, Algorithms, Cryptography, and Human-Centered Robotics

### **Experiences**     **Viavi Solutions, Colorado Springs, CO ► (July 2019 to August 2019)**

*Research and Development Intern*

- Tested anomaly detection software using JUnit, Mockito, and Cucumber
- Reported machine learning metrics using InfluxDB and Grafana
- Helped optimize machine learning classifier for anomalous data using Scala and Java

### **FullContact, Denver, CO ► (May 2019 to July 2019)**

*Mines Field Session Intern*

- Gained proficiency in the Scrum process in the role of Scrum Master
- Parsed identity data and created graph structures for use in Neo4j
- Used Cypher to populate database for graph visualization
- Developed a front-end webpage to easily visualize and debug user data

### **Projects**     **An Intelligent Intersection**

*Machine Learning Project Using Python*

- Developed a simulated traffic environment for smart intersection
- Used Q-learning to create intersection agent with Tensorflow
- Optimized intersection agent through hyperparameter testing
- Resulted in low traffic wait times and high vehicle throughput

### **Turtlebot Tracking System**

*Human Centered Robotics Project Using Python*

- Created a robotic tracking system using ROS and OpenCV
- Used infrared camera sensor to search for and follow heat signatures
- Tested optimal parameters for object avoidance and humanoid tracking
- Resulted in an excellent robotic system which tracks and follows humans

### **Skills**

#### **Programming Languages**

- C/C++, Python, Java, Scala, MATLAB, MIPS

#### **Frameworks, Operating Systems, and Toolsets**

- Git, OpenCV, Neo4j, Spring, Linux, Windows, Mac, MS Office, ROS

#### **Workflow Skills**

- Test Automation, Thread Safety, Agile, Scrum, Persistent, Adaptable

#### **Other Information**

- Eligible for a Security Clearance and a US Citizen