

# RYAN GALLOP

**LinkedIn:** <https://linkedin.com/in/rrgallop>

**Location:** Cambridge, MA

**Website:** <https://rrgallop.github.io>

**Phone:** (207) 808-0590

**Email:** please use email form

---

## TECHNICAL EXPERIENCE

- ❖ Languages: Genero BDL, SQL, JavaScript, TypeScript, C#, Python, Java, C, HTML/CSS, YAML, JSON, XML, BASH
- ❖ Other: .NET, SQL Server, MongoDB, Node.js, Angular, REST, Linux, Visual Studio, PyCharm, Git, TFS

## WORK EXPERIENCE

### **Software Engineer**

*February 2021 - June 2021*

### **Software Developer**

*December 2019 - February 2021*

*Tyler Technologies — Portland, ME (remote since March 2020)*

- ❖ Refactored and added features to a large codebase with guidance from senior peers
- ❖ Contributed tables and views to a new aggregate database that consolidates information from disparate sources and displays it in a single location, requiring the use of complex joins, new triggers, and change tracking tables
- ❖ Developed SOAP endpoints from client specification, interpreting the incoming XML object, validating its contents, and converting it into the appropriate database action
- ❖ Identified areas throughout the product where performance could be improved; implemented SELECT statements that can retrieve all the needed information in a single transaction, even when the data is coming from many different sources or requires transformation
- ❖ Significantly decreased runtimes by identifying problem areas -- up to 50x faster in some cases
- ❖ Worked together with others in my organization; from discussing design decisions, to working through tough problems, to mentoring new teammates and sharing knowledge -- everything was a team effort
- ❖ Quickly learned difficult areas of the product, such as how to integrate with critical in-house APIs and other important areas of business logic
- ❖ Participated in code reviews, and followed Agile methods such as story-pointing, stand-ups, and retros
- ❖ Made use of JIRA, Confluence, version control

### **Appalachian Trail Hiker**

*April 2017 - May 2017, July 2019 - October 2019*

*ME, NH, VT, MA, CT, NY, NJ, PA, WV, VA, TN, NC, GA — United States*

### **Student Research Associate**

*September 2018 - May 2019*

*University of Southern Maine — Portland, ME*

- ❖ Used ResNet34, Keras, TensorFlow, Jupyter Notebook, Anaconda to classify cells affected by a type of poisoning
- ❖ Achieved test set prediction accuracy of 92% (macro F1 87%) from a training dataset of 230 images, 5 categories

### **Software Engineering Intern**

*May 2018 - August 2018*

*Safran Aerospace — Rochester, NH*

- ❖ Designed solution for organized storage of software logs - MongoDB, FluentD, HTTP endpoints, Python libraries
- ❖ Refactored Python codebase to implement new design patterns; wrote technical documents to support work

## EDUCATION

### **Arizona State University**

*August 2021 - Present*

*M.S. in Computer Science (in progress)*

### **University of Southern Maine**

*Graduated May 2019*

*B.S. in Computer Science, Dean's List*