

# MATTHEW HOTCHKISS

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## SUMMARY

*“Matthew has an incredible way of seeing a problem from different angles and being able to handle it in a way that solves the problem and at the same time, helps reduce the possibility of future problems. Matthew offers up concise, brilliant solutions to issues and I often find myself profoundly influenced by his insights. Matthew is also completely open to receiving suggestions from everyone else on the team, and elicits those comments and sharing his own thoughts in his goal to not only be a better developer himself but to help everyone on the team write the best code they can.”*

*~ Current Manager*

## EDUCATION

**Oregon State University**

GPA: 4.00

**BS Computer Science, Systems**

Graduating June 2023

- Machine Learning & AI Algorithms
- Mobile, Web, & Cloud Development
- Micro-Architecture & Assembly
- RDBMS & NoSQL Databases
- Linux Operating Systems
- Advanced Architecture Paradigms

## PROJECT HIGHLIGHTS

Exhaustive collection found in Portfolio

**Classroom Polling Software: Senior Capstone**

*MySQL, Express, React, AWS*

Developed an open source web application to create a live question polling classroom environment for teachers & students. Deployed instance for Oregon State. Group of 5 peers

**TekBot: Microcontroller Programming**

*AVR ISA, Atmel Atmega32 Microcontroller*

Simulated behaviors of a robot with two bidirectional motors that supports speeding up, slowing down, turning, and reversing. Accomplished using I/O, interrupts, clocks

**Tumor Diagnostics: Logistic Regression**

*Python, Numpy*

Derived tumor diagnosis using logistic regression model on 8 parameter data. Tuned hyperparameters, performed cross validation, considered accuracy & precision within context

## WORK EXPERIENCE

**Lumen Learning – Remote**

*Sept. 2021 → Present*

**Software Engineer Intern**

*Postgres, Ruby on Rails, React*

- Authored feature documentation, system sequence diagrams, [Postman](#) collections
- Collaborated within 11 engineer [agile team](#) for refinements, [code pairing](#), standup
- Utilized [GitHub](#) to contribute 16,000+ lines of production code, provide [PR reviews](#)
- Connected to [AWS EC2](#), [Elastic Beanstalk](#) to interact with & manage applications
- Deliverables:
  - Researched and drove discussions on 2 new models, processes for new MVP system
  - Partnered with Unicon, Inc. to deliver new product integration process for customers
  - Reduced expenses by migrating assessment data away from deprecated system

**Lumen Learning – Remote**

*Jan. 2021 → Sept. 2021*

**Course Development Intern**

*HTML, CSS, Latex*