

# ERIC CHEN

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## EDUCATION

### University of Maryland

B.S. in Computer Engineering | Minor in Robotics | QUEST Business Honors Program

Aug 2021 - May 2024

GPA: 3.95

*Relevant Coursework:* Computer Systems, Differential Equations, Discrete Signal Analysis, Organization of Programming Languages, Algorithms and Data Structures, Linear Algebra, Multivariable Calculus

## EXPERIENCE & PROJECTS

### Intuit Mailchimp

Jun 2022 - Sep 2022

*MLOps/Machine Learning Engineer*

- Integrated automated documentation generation and version control into CI/CD within data science templates
- Helped migrate development environment to the GCP via instance templates and GitHub templates
- Worked with Jenkins, Git, Docker + Kubernetes, Python, & GCP (Vertex.ai, instance templates)

### Northrop Grumman Environmental Sustainability Challenge

Mar 2022 - May 2022

*1st Place Team*

- Designed an IoT storm water management system to prevent runoff and flooding on residential properties
- Developed the weather parsing logic with Python and the water flow control with Arduino C
- Evaluated market analytics and environmental impact of our product

### Pulsar Academy (<https://pulsaracademy.com>)

May 2020 - Mar 2021

*Founder and Primary Instructor*

- Initiated an online business to educate the youth about coding principles and fundamentals
- Designed and programmed a website with Django and PostgreSQL to manage registration, payment, and course content
- Containerized app with docker-compose and hosted website on AWS EC2 and RDS

### University of Maryland Nonlinear Dynamics Laboratory

Jun 2020 - Aug 2020

*Machine Learning Research Intern*

- Designed an Artificial Neural Network with Pandas, Scikit-Learn, and TensorFlow to predict the exposure of tweets using sentiment analysis
- Created a custom data pipeline using Python and the Twitter Application Programming Interface

## TECHNICAL SKILLS

### Programming

Python, HTML/CSS, Java, Bash, C, JavaScript, Ruby, OCaml, Rust, Assembly  
Django, TensorFlow, Scikit-Learn, React, WSL

### Cloud Technologies

AWS EC2, Lambda, RDS, DynamoDB, EventBridge, ECS, S3, CloudFront, VPC  
GCP Compute Engine, GCS, GKE, Vertex.ai, BigQuery, VPC

### Networking

IP Routing and Addressing, Firewall, Autoscaling and Load Balancing

### DevOps

Docker + Kubernetes, Git, Jenkins, Artifactory

### Software & Tools

MS Office Suite, LATEX, MATLAB, LabVIEW, Jira, Confluence, Notion

### Communication

Public Speaking, Public Forum Debate

### Teaching

Java, Python, Public Forum Debate, Astronomy

## CERTIFICATIONS

AWS Associate Solutions Architect Certification SAA-C02 (2021)

Oracle Java SE 8 Programmer I Certification IZ0-808 (2019)

## LEADERSHIP AND EXTRACURRICULARS

### UMD Liquid Rocket Team (*Data and Acquisition Team Lead*)

2021 - Present

- Designed the avionics, electronics, and data collection pipeline with LabVIEW of our 350 lbf liquid rocket engine

### Terrapin Racing (*Composites Team Member*)

2021 - Present

- Built the carbon fiber monocoque and aerodynamic components of competition formula car