ERIC CHEN

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EDUCATION

University of Maryland *Aug 2021 - May 2024*
B.S. in Computer Engineering | Minor in Robotics | QUEST Business Honors Program *GPA: 3.95*

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

Extracurriculars and Leadership

UMD Liquid Rocket Team (Data and Acquisition Team Lead)
· Designed the avionics, electronics, and data collection pipeline with LabVIEW of our 350 lbf liquid rocket engine

Terrapin Racing (Composites Team Member)
· Built the carbon fiber monocoque and aerodynamic components of competition formula car

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
Instruction	Java and Python (9 months), Public Forum Debate (12 wks), Astronomy (12 wks)

CERTIFICATIONS

AWS Associate Solutions Architect Certification SAA-C02 (2021)
Oracle Java SE 8 Programmer I Certification IZ0-808 (2019)

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 JavaScript to manage registration, payment, and course content
· Used docker-compose to containerize website with PostgreSQL database and SSL daemon
· Hosted website using AWS EC2 and RDS using a NGINX webserver

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