

CAMILLE ZAUG

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RELEVANT WORK EXPERIENCE

MLOps Engineer and Data Scientist

Ford Motor Company

📅 10/2021-present

- Analyzing and visualizing new and existing warranty and large-volume connected vehicle data in SQL, Hadoop, and BigQuery to understand business practices, perform feature engineering, and determine model architecture to meet user needs and requirements
- Modernizing high-impact analytics products by implementing the latest technologies and working with university partners to productionalize cutting edge data science research in the field of active learning
- Deploying containerized machine learning models by orchestrating Kubeflow training pipelines on Google Cloud Platform's Vertex AI and scheduling batch prediction jobs on Kubernetes
- Constructing continuous integration/continuous deployment (CI/CD) Tekton pipelines on OpenShift and building images with Docker and buildah to streamline and automate application delivery process
- Practicing design thinking by collaborating with business partners to understand model strengths and weaknesses, enabling agile development practices to deliver fast improvements to the user experience
- Collaborating cross-functionally with data scientists, engineers, and subject matter experts to make recommendations to business partners regarding areas of improvement in data collection and labeling
- Developing team cohesion, organization, and collaboration by thoroughly documenting project source code, contributing to shared team technical wiki, participating in technical knowledge shares, and organizing popular virtual team-building activities

Computer Science Instructor

Girls Who Code

📅 Summer 2020, 2021

- Took action to close the STEM gender gap by welcoming over 360 high school girls into the computer science community, introducing them to the world of web development (JavaScript, CSS, HTML)
- Led a team of 2-4 teaching assistants to create an inclusive virtual class culture in order to support active student learning of computer science concepts through risk-taking, exploration, and partnership
- Emphasized how computer science can be a tool for positive change by mentoring students working on their capstone project: websites built to educate the public about causes meaningful to students

Mathematics Research Assistant

Seattle University

📅 2018-2020

- Modeled ocean swell, applying nonlinear surface wave models previously only studied in controlled wave tanks to the chaos of the Pacific Ocean to determine their efficacy in a real-world environment
- Designed pipeline to process wave data in Python, spearheaded the use of Azure cloud computing to efficiently perform numerical simulations, and developed metrics to quantify model error
- Received multiple travel awards to present findings at professional conferences, received a best poster award at a SIAM sectional meeting, gave an invited talk at the University of Washington, and first-authored paper for *Studies in Applied Mathematics*

EDUCATION

M.S. Applied Mathematics

University of Washington

📅 Fall 2020 - Spring 2021

GPA: 3.93

SIAM Club Member

B.S. Mathematics, B.A. Physics, Chinese Minor

Seattle University

📅 Fall 2016 - Spring 2020

Summa cum laude

GPA: 4.0

Alpha Sigma Nu

Sigma Pi Sigma

LANGUAGES

Programming Languages

Proficient

Python

C++

MATLAB

SQL

Experienced

C

JavaScript

HTML

CSS

R

Julia

CUDA

Bash

YAML

AWARDS



President's Award, 2020

Elected by department chairs and university president to receive highest academic award at Seattle University (given to one graduating senior)



Best Poster Award, 2019

Society of Industrial and Applied Mathematicians Pacific Northwest Sectional Meeting, October



Bannan Scholar, 2018-2020

Scholarship awarded for my academic achievement in conjunction with my community service in STEM education at Bailey Gatzert Elementary School

PUBLICATIONS

C. R. Zaug and J. D. Carter, "Dissipative models of swell propagation across the Pacific," *Studies in Applied Mathematics* (Accepted), 2021.

N. Pelle, L. Ehinger, C. R. Zaug, and W. J. Kim, "An autocollimator with sub-microradian sensitivity," *American Journal of Physics*, 2020.