TAM DANG	EXPERIENCE
➡ tamdangnadmat@gmail	Software Development Engineer II   XEVO, INC. — Bellevue WA, Sept. 2019 - Jul. 2021
<b>\$</b> 206.370.2981	• Collaborated across multiple teams in completing core integrations between notification and vehicle telemetry services, which support in-car apps with actions and features that trigger on desired vehicle telemetry events
EDUCATION ———	• Worked closely with product management to implement and validate an in-car notification feature that suggests the most likely phonebook contact to call at any moment using heuristics that leverage the vehicle's current telemetry and the driver's call and SMS logs
University of Washington M.S. in Computer Science	• Designed Android libraries to improve app developer experience by providing easy-to-use APIs for retrieving vehicle geolocation and engine readings from Xevo's vehicle telemetry service
<ul><li>Class of 2019</li><li>Advised by Noah Smith</li></ul>	• Accelerated team app development by leveraging Kubernetes and Docker to spin up all necessary backend services in a local Kubernetes cluster to provide developers a one-touch solution for local app development
B.S. in Computer Science	Onboarded external partners onto Xevo's proprietary Android platform
• Class of 2018	• Promoted from SDE I to SDE II on March 16, 2021
SKILLS	NLP Researcher   UNIVERSITY OF WASHINGTON — Seattle WA, Winter 2017 - Summer 2019 • Collaborated with researchers from UW and the Allen Institute for Artificial Intelligence to
Cloud Computing Kubernetes + Docker, ElasticSearch	<ul> <li>Engineered novel neural network architectures by collaborating with researchers on model conception and ideation, on model implementation via PyTorch in a shared git repository which the singular and any singular any singular and any singular any singular and any singular any</li></ul>
CI / CD	- Research culminated in the publication of <i>Variational Pretraining for Semi supervised Text</i>
Jenkins, Artifactory	• Research cummated in the publication of <i>Variational Tretrating for Semi-supervised Text</i> <i>Classification</i> by Suchin Gururangan, <b>Tam Dang</b> , Dallas Card, and Noah A. Smith (ACL '19)
Mobile Development Android, Flutter, Firebase	Software Engineering Intern   PAYSCALE, INC. — Seattle WA, Summer 2017
Metrics	• Designed and implemented an online service using React JS and ASP.NET that suggests courses from massive open online courseware providers to PayScale users based on their skills
Amazon Cloudwatch	- Developed and conducted A/B tests using VWO and Google Analytics
Machine Learning	TEACHING
PyTorch, NumPy, scikit learn, matplotlib, Tensorboard.	Graduate Compilers   UNIVERSITY OF WASHINGTON
Data Engineering	• Assisted in the winter 2019 onering of graduate-level complets, which tasked stillents to solve a problem of their choice by creating a domain-specific language (DSL)

- Aided students by developing an interpreter for an embedded DSL called Embedded MUPL (Made Up Programming Language) using Scala to provide students a complete example of how a language can implement types, conditional flow, lexical scope, and functions
- Duties involved regularly checking in with students throughout their language implementation to provide feedback and guidance, holding office hours, and grading

## Undergraduate Programming Languages | UNIVERSITY OF WASHINGTON

- Assisted in running three offerings of the Programming Languages course to teach students • functional programming paradigms and how they contrast with imperative programming
- Duties involved leading recitation, grading, and providing extra help to students via office hours

# PROJECTS

# Natural Wine Discovery and Journal — https://github.com/dangitstam/notes

- Implemented an app using Flutter + Firebase to help people enjoy wine intentionally by being able to discover natural wines from a curated list and record their tastings by taking a picture, selecting tasting notes, and writing detailed descriptions
- Users can create custom tasting notes that persist and can used in future tastings

# Vectorized Viterbi — https://github.com/dangitstam/twitter-viterbi

- Created a highly optimized Viterbi decoding implementation for Twitter POS tagging
- Leveraged NumPy broadcasting when computing likelihoods of hidden sequences to perform the processing of input sequences in a single loop for any HMM of fixed order, which greatly improves performance by replacing some Python with functionally-equivalent operations in C

Pandas, MySQL, Snowflake

Languages

Python, Java, Kotlin, Golang

LINKS

**O** github.com/dangitstam

♦ tamdang.io

in linkedin.com/in/dang-tam