ALEX ZHAO

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EDUCATION

UC Berkeley, Berkeley, CA **Expected May 2021**
B.S. Electrical Engineering & Computer Science/B.S. Business Administration **|** GPA: 3.77/4.00
Management, Entrepreneurship, & Technology Program
Honors: Regent's & Chancellors' Scholar, Dean's List from 2018-19

EXPERIENCE

Zalando, Berlin, Germany **June 2019 – present**
Largest e-commerce company in Europe, headquartered in Berlin
Research Engineering Intern
- Apply sequence transduction models to customize size and fit recommendations for customers.
- Wrote transformer model in PyTorch based on recent deep learning publications on encoder-decoder architectures and attention-based natural language processing (Vaswani et al, 2017).
- Finetune hyperparameters and parallelize algorithm to run on AWS across multiple GPUs.
- Conduct research on word embeddings and neural network architectures for weekly presentations to team leads.

National Geographic, Washington, D.C. **September 2018 – December 2018**
Data Science Intern
- Analyzed 14 terabytes of session data on over a million National Geographic customers using Google BigQuery, Apache Spark, and Python libraries such as pandas and scikit-learn.
- Constructed and cross-validated random forests, feed-forward networks, and logistic regression to develop customer segmentation and increase customer retention rates.
- Built collaborative filtering model to recommend articles, outperforming the current baseline in production.

Pivotal Software, San Francisco, CA **May 2018 – August 2018**
Software Engineering Intern
- Pair programmed daily with team of four engineers for 12 weeks on Cloud Foundry, an open source multi-cloud platform.
- Updated & integrated command line interface written in Golang to support new Cloud Controller API.
- Developed continuous integration pipelines to enable agilrapid deployment at scale for component teams.
- Released three new command line interface versions (v 6.37.0-6.39.0) for general deployment with over a million downloads.
- Gained experience in distributed architecture, test-driven development, and continuous deployment to AWS and GCP.

NASA-JPL, Pasadena, CA **August 2015 – December 2015**
Aerospace Engineering Intern
- Designed & constructed model lander for public exhibition, writing remote access software in C++ on top of Arduino hardware
- Collaborated with Rosetta Mission team to model mission & assess mechanical risk.

ACTIVITIES

Berkeley Consulting, Berkeley, CA **September 2017 – present**
Student-run consultancy working with Fortune 500 companies, startups, and non-profits.
Internal Vice President
- Designed & built public-facing website for national non-profit lobbying for CO_2 removal.
- Created data visualizations for client's presentation to Senate Environment and Public Works Committee in April 2018.
- Provided recommendations to HSBC's Head of International Banking on customer acquisition and market entry strategies.

SKILLS

- *Languages*: Python, Golang, Java, C/C++, SQL, Lisp
- *Tools*: git, test-driven development, PyTorch, TensorFlow, Linux, AWS/GCP, Apache Spark, continuous integration & deployment
- *Interests*: paddle-boarding, philosophy (especially ethics and language), hiking, Roman history, and teaching speech/debate

PROJECTS

uHearingTest **August 2014 – February 2015**
Co-creator, mobile app developer
- Collaborated with four other high school students to develop an iOS app written in Swift that identifies hearing loss.
- Won UCLA's Code for the Mission competition for $5,000 in prize money.
- Released app for free download on the App Store and reached over 8,000 downloads.