

Will Geoghegan

Software Engineer

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Relevant Skills: *Languages:* Python, Java/Kotlin, C/C++; *Platforms/Technologies:* Unix, AWS, GCP, Git, CI/CD, *Machine Learning:* TensorFlow, PyTorch, JAX

Experience

Amazon | Software Development Engineer

Jun 2021 - Current

- Technical lead for initiative incentivizing customers to improve Prime wallet health. Worked with product manager to identify key business goals. Designed and implemented a highly scalable event-driven system for identifying eligible customers based on a gradient boosting machine learning model. Improved Prime renewal transaction success rate (TSR) by 370 basis points.
- Led migration of team's core service handling up to 4500 payment transactions per second to native AWS infrastructure. Used infrastructure-as-code best practices in AWS CDK to deploy service to a modern containerized software stack using Docker and ECS. Executed migration with zero high-severity incidents.
- Mentor new grad engineers, bringing them up to speed on Amazon and team practices, supporting their development and engineering skills, and helping them become productive teammates.
- Lead team DevOps initiatives. Planned and orchestrated initiative to improve monitoring and integration testing which resulted in 60% decrease in high severity incidents MoM.
- Participate in a monthly week-long on-call rotation. Handle tickets from internal and external clients during shifts, triaging issues and designing solutions.

Nike | Professional Track and Field Athlete

Jun 2015 - Jan 2020

- Trained and raced full-time, running up to 100 miles per week and representing Nike and Team USA in domestic and international track & field competitions in the US, Europe, and Asia.
- Achieved 2016 Olympic Standard in the 5000 meters with a time of 13 minutes, 17 seconds.

Brunswick Crypto Partners | Co-Founder, Partner

Nov 2017 - Dec 2018

- Designed, implemented, and owned a low-latency, mid-frequency algorithmic trading framework for statistical arbitrage of digital currencies in C++ while training full-time for Nike.
- Delivered returns 124 percentage points above market returns over the one year trading period.

Education

Stanford University | Graduate Certificate, AI

Mar 2019 - Mar 2021

- Earned 33 graduate credits in software systems, deep learning, linear algebra, and algorithmic analysis with a 4.01 GPA.
- Reproduced state-of-the-art research results in deep learning and reinforcement learning.
- Received Best Research Presentation recognition for project on learning meta-regularization hyper-parameters in model-agnostic meta-learning (MAML).

Dartmouth College | B.A., Computer Science

Sep 2010 - Jun 2014

- Captained varsity NCAA Division I cross country and track & field teams