Sean Smith

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Experience

Principal Solution Architect   **Contextual AI**   **Jan 2025 - Present**
- First Solution Architect hire

Sr. GenAI Solution Architect   **Amazon (AWS)**   **October 2023 - Jan 2025**
- Helped launch and onboard strategic customers to SageMaker Hyperpod, the fastest growing AI/ML service at AWS. Built out a workshop that became the standard onboarding material.
- Contributed code examples such as NeMo Megatron, Stable Diffusion and Megatron-LM to our Github repo.
- Built out ML Workshops, a guide on how to train foundational models on AWS using Slurm, Lustre and ParallelCluster.

Sr. HPC Solution Architect   **Amazon (AWS)**   **April 2022 - October 2023**
- Built out ParallelCluster Manager, a web UI for AWS ParallelCluster
- Gave a talk at re:Invent 2022, The Future of Computational Fluid Dynamics
- Initiated and developed strategic customer relationships with customers such as Rivian and Commonwealth Fusion Systems

HPC Solution Architect   **Amazon (AWS)**   **April 2020 - April 2022**
- Built No-Tears-Cluster, then followed on with Cluster Creator

Software Development Engineer II   **Amazon (AWS)**   **November 2018-April 2020**
- Part of the team that built AWS ParallelCluster from scratch and launched at SuperComputing 2019

Software Development Engineer   **Amazon (AWS)**   **September 2017-November 2018**

Education

Combined BA/M.S. in Computer Science   **Sep 2013 - Sept 2017**
- Graduated in 4 years
- Boston, MA
- Graduation Speaker, CS Department

Skills

Programming Languages: 🐍 Python, 🆖 JavaScript, HTML / 🅲 CSS, ☕ Java
Tools and Frameworks: AWS, Slurm, Lustre, EFA, NCCL, Pyxis/Enroot, AWS ParallelCluster

Speaking

- Speaker Session at AWS NYC Summit 2024, AIM 309 "Train and tune foundation models at scale with Amazon SageMaker"
- Builder session at re:Invent 2024, CMP 324 "Train Foundational Models at scale with SageMaker Hyperpod"
- Chalk talk at re:Invent 2023, CMP 326 "Design, engineering and simulation on AWS using HPC and virtual desktops"
- Chalk talk at re:Invent 2022, CMP 402 "A day in the life of a cloud-empowered aerodynamics engineer"
- Chalk talk at re:Invent 2021, CMP 405 "The future of Computation Fluid Dynamics in the Cloud"

Publications

P1 **The Unintended Consequences of Email Spam Prevention**
Sarah Scheffler, Sean Smith, Yossi Gilad, Sharon Goldberg
Passive and Active Measurement 19th International Conference, PAM 2018, Berlin, Germany, March 26–27, 2018, Proceedings

Personal Projects

- The Fifty Project: In September 2022, my Fiance and I set out to fly our Mooney to all 50 US States in order to raise money for Angel Flight
- Sea Rover: A 14-foot autonomous boat build to navigate the ocean. Completed open ocean testing successfully June 2016

Other

- Eagle Scout
- Commercial Pilot, Flight Instructor, Multi-Engine pilot