

Advay Pal

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EDUCATION

STANFORD UNIVERSITY

MS IN COMPUTER SCIENCE

GPA: 4.15/4.0

NATIONAL UNIVERSITY OF SINGAPORE

BComp IN COMPUTER SCIENCE

GPA: 4.7/5.0

University Scholars Programme

LINKS

Github:// [advaypal](#)

LinkedIn:// [advay-pal](#)

Twitter:// [advaypal](#)

TEACHING

Operating Systems (CS140): Prof.

David Mazières

Deep Learning (CS230): Prof.

Andrew Ng

Data Structures and Algorithms

(CS2020): Prof. Seth Gilbert

Programming Methodology

(CS1101S): Prof. Martin Henz

COURSEWORK

Language Modeling from Scratch

Deep Reinforcement Learning

Deep Multi Task and Meta Learning

Natural Language Processing

Computer Vision

AI Planning and Decision Making

Machine Learning

Information Retrieval

Operating Systems

Computer Networks

Compilers

Distributed Systems

Programming Languages

Combinatorial and Graph Algorithms

Theory of Computation

SKILLS

Experienced

• Python • JavaScript • PyTorch

Familiar

• Rust • C++ • C

• Tensorflow • Java • OCaml

• Scala • Swift • Ruby • SQL

EXPERIENCE

MODAL LABS | FORWARD DEPLOYED ENGINEER

2024 - 2025 | New York City Metropolitan Area

- Joined at ~19 employees, \$150mil val (now 60+ employees, \$1.1B val).
- Worked on a multitude of AI related projects for various customers, including
 - GRPO on LLMs for math and coding
 - Fine-tuning FLUX and optimizing FLUX inference latency
 - Fine-tuning whisper on custom/distilled dataset
 - LLM inference optimization (vLLM / TRT-LLM / SGLang)
- Sales: decks, demos, qualification, PoCs, market mapping, outreach.

APPLIED INTUITION | SOFTWARE ENGINEER

2021 - 2023 | San Francisco Bay Area

- Joined at ~90 employees, \$1.25B val (now 1000+ employees, \$15B val).
- Built compiler for domain specific language.
- Full stack product development for a new product, regularly interfacing with customers.
- Worked with sales & product for onsite customer visits, workshops, and PoCs.
- Worked with recruiting to source, interview, and close candidates.

STANFORD UNIVERSITY | ADJUNCT LECTURER

2021 | San Francisco Bay Area

- Created and taught the world's first university course on Transformer deep learning models, advised by Prof. Christopher Manning.
- 100+ signups for the class, and 100k+ views for the online lectures on YouTube

NURO | SOFTWARE ENGINEERING INTERN

2020 | San Francisco Bay Area

- Built a caching mechanism and timeout feature for a distributed job scheduling framework.

ZILLIQA | SOFTWARE ENGINEERING INTERN

2019 | Singapore

- Reduced the inter-process communication overheads between the smart contract interpreter and the blockchain from linear to constant.
- Built a dApp on Zilliqa's platform to promote a marketing campaign.

APPLE | SOFTWARE ENGINEERING INTERN

2018 | San Francisco Bay Area

- Built a search indexing tool to efficiently query Siri's ontology.
- Presented project to the head of Siri (Apple VP).

TWITTER | SOFTWARE ENGINEERING INTERN

2018 | San Francisco Bay Area

- Trained deep neural networks for video engagement on the home timeline.

ACHIEVEMENTS

2020 **Co-authored paper** at the **IEEE Blockchain Conference 2020**

2019 **Gold medal for outstanding achievement** in graduating CS class

2019 **Silver medal**, NUS Inter College Games, Soccer

2018 **Excellence in teaching** award for undergraduate teaching assistantship

2017 PwC Prize for the **most outstanding second year** CS Student