

## EDUCATION

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### Harvard University

B.A. in Computer Science with Honors (GPA: 3.71/4.0)

Cambridge, MA

May 2024

Coursework: Distributed Systems (MIT), Operating Systems, Data Structures and Algorithms, Data Systems  
Artificial Intelligence, Big Data Systems, Design of Useful Interactive Systems

## EXPERIENCE

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### Meta

*Software Engineer Intern · Facebook Avatars Team*

Menlo Park, CA

May 2022 - August 2022

- Implemented the backend for 3D avatar sticker categories in Hack (PHP), refactored client GraphQL queries, and handled 2D to 3D sticker migration on platforms such as the Facebook news feed, driving increased user engagement with avatars and helping them find their desired sticker over 23% faster.
- Designed and built a new internal tooling website using Hack, React, and Relay that enables engineers, cross-functional partners, and graphic artists to directly manage avatar stickers and categories.

### Lime

*Software Engineer Intern · Partnerships Platform Team*

San Francisco, CA

May 2021 - August 2021

- Architected and developed the end-to-end refund flow, user lifecycle API, and an endpoint to fetch real-time vehicle data through QR code scanning or license plate entry for a server-side API build with Ruby on Rails, enabling seamless MaaS integrations between Lime vehicles and public transit apps, and which publicly launched in August 2021.
- Extended the functionality of an internal administrative portal by creating React UI components that support assigning permission access-control roles and viewing mobility data feed instructions for regions and external partners.

### Cisco

*Software Engineer Intern · Webex Media Engine Team*

San Jose, CA

May 2020 - May 2021

- Significantly improved developer productivity by building new Python-based internal tools, deployed using Jenkins or CLI interfaces, to query, analyze, and triage client logs for a cross-platform media SDK for Webex Meetings and Teams.
- Implemented a new data aggregation layer in the SDK's metrics ETL pipeline using Python, the Elasticsearch API, and Airflow, increasing Kibana dashboard loading times by over 500%.

## ACTIVITIES

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### Harvard University

*Research Assistant for Eddie Kohler, Stratos Idreos*

Cambridge, MA

February 2022 - Present

- Implementing concurrency control for Masstree, a fast x86-optimized multicore key-value store, using C++ standard library synchronization primitives in order to make Masstree portable to all major platforms.
- Built an open-source Python platform for conducting fast and robust hyperparameter optimization scheduler experiments by applying an expressive parametric modeling approach to accurately simulate loss landscapes on real-world datasets.

### Harvard University

*Teaching Fellow for CS 61 (Systems Programming and Machine Organization)*

Cambridge, MA

Fall 2022

- Taught sections, held office hours, and graded labs for a 200+ enrolled course on computer systems programming fundamentals such as memory management, kernel programming, caching, concurrency, and low-level performance.

### Datamatch

*Algorithm Lead (2021-2022), Algorithm Developer (2019-2021)*

Cambridge, MA

September 2019 - May 2022

- Led a 20+ student team to redesign and add new features such as user bio sentiment analysis to Datamatch's scoring and matching algorithms written in C++ and Python, which has scaled to match 50,000+ students across 40+ schools.

## TECHNICAL SKILLS

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**Programming Languages:** C, C++, Python, Golang, Java, JavaScript

**Frameworks & Technologies:** React, Ruby on Rails, Node.js, PyTorch, TensorFlow, Firebase, Elasticsearch, GraphQL