

# HRUSHIKESH VAIDYA

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## EDUCATION

### University of Southern California

Master of Science, Computer Engineering

August 2024 - May 2026

GPA: 4.0

## SKILLS

<b>Tools:</b>	AWS, Google Cloud Platform, Docker, Git, Kubernetes, CI/CD
<b>Technologies:</b>	Django, Django REST Framework, Spring, Node.js, Flutter, Provider, MongoDB
<b>Languages:</b>	Python, C/C++, JavaScript, Java, Dart
<b>Coursework:</b>	Algorithms, Operating Systems, Computer Networks, Cloud Computing, Image Processing

## EXPERIENCE

### Wide Wings Media

Fullstack Developer

July 2023 - July 2024

Pune, India

- Fully redesigned the existing website for [ticketkhidakee.com](https://ticketkhidakee.com), replacing the existing LAMP stack with a Django-Postgres stack, leading to a ~45% increase in traffic and ~30% increase in user retention over 6 months
- Designed a robust cloud architecture on AWS, maintaining P95 latency below 100ms with ~10,000 concurrent users during extreme traffic peaks.
- Configured global CDN on AWS CloudFront and designed a caching policy to handle ~500,000 daily users

### Mastercard

Software Development Intern

May 2023 - July 2023

Pune, India

- Wrote a serde protocol to translate between protocol buffers and AVRO schemas for event-driven applications
- Facilitated communication between heterogeneous serialization formats between services, reducing the time taken for data transformation by ~50%
- Wrote a proof-of-concept Spring application for the implemented schema translation protocol.

## CO-CURRICULAR WORK

### Adaptive Computing Experiences Lab

Research Assistant

October 2024 - Present

University of Southern California

- Worked under Prof. Souti Chattopadhyay at the Adaptive Computing Experiences Lab (ACE) at USC
- Wrote “SciSO: Mining Science in StackOverflow”, submitted at the Mining Software Repositories ’25 Conference
- Currently studying sustainability in software architectures, developing TSAR (a tool for Tracing Sustainability in ARchitectures).

### Django

Contributor

August 2022 - Present

- Contributed over 15 accepted pull requests adding patches, bug-fixes, and new feature additions to Django
- Submitted a GSoC 2022 proposal for adding rate-limiting to Django core and a second GSoC 2023 proposal to include CORS and CSP support in Django core

## PROJECTS

### docxlatex

- Wrote a Python library to extract mathematical equations, text, and images from .docx files
- Included a conversion API for converting extracted equations into LaTeX
- Hosted on [PYPI](https://pypi.org/project/docxlatex/) under the name docxlatex, with [~1000 downloads](https://pypi.org/project/docxlatex/) a month

### MJXGUI

- Created an open source WYSIWYG equation editor for the web with a GUI for creating equations similar to Google Docs or Microsoft Word
- Wrote an API for conversion of created equation into LaTeX for convenient storage and/or rendering