

EMIL SHARKOV

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EDUCATION

University of California, San Diego

September 2020 - March 2024

Bachelors of Science in Computer Science

GPA: 3.6/4.0

Relevant Courses: Distributed Systems, Web Design, Networked Services, Databases, Data Science, Machine Learning, Computer Vision, Software Engineering, Data Structures and Algorithms

WORK HISTORY

Airline Tariff Publishing Company

February 2023 - Present

Software Engineer Intern

AWS, Python, React, Angular, SQL

- Developed an educational web app using AWS S3, CloudFront, and React to increase company-wide cloud fluency by teaching 500 employees how to use in-house product workflows
- Decreased bug triage time by 10% for flagship product by creating a dashboard that displays data ingestion metrics with Angular, Spring Boot, and MySQL
- Deployed 3 Python microservices to EKS to identify cost savings accrued by migrating from OpenShift to EKS
- Created dashboards that identify bottlenecks in team workflow using the Jira API, Python, and AWS Lambda to fetch and analyze tickets
- Measured the efficiency of 10 product teams, by utilizing the GitHub API, Python, AWS Lambda, and Tableau to construct a dashboard that monitors the time it takes to create and deploy a feature into production

MakeItHappen.nyc

June 2022 - September 2022

Software Engineer Intern

React, Express, SQL

- Reduced customer inquiries by 25% by creating a React dashboard that monitors the transactions of 20,000 users
- Decreased API call latency by 10 seconds by reducing SQL query complexity in fetching of large record datasets
- Resolved multiple time-critical issues within customer facing APIs with efficient debugging

Ardigent Consulting

October 2019 - December 2019

Software Engineer Intern

React, Express

- Strengthened database security with sanitation procedures inside 2 REST APIs preventing SQL Injection attacks
- Decreased bounce rate of company website by 26% by refactoring the landing page to improve user experience

LEADERSHIP

ACM AI @ UCSD

May 2023 - Present

Board of Directors

MongoDB, Express, React, TypeScript

- Orchestrated a team of 5 web developers and designers to create and launch the ACM UCSD website

PROJECTS

SoundCloud Scraper

github.com/emilsharkov/SoundCloudScraperDesktop

- Created a desktop app that downloads songs from SoundCloud to listen to them locally with React and Electron

Sentry Turret

github.com/emilsharkov/SentryTurret

- Built a turret that tracks and launches gel balls at targets using Python, OpenCV, and Raspberry Pi4

ChatGPT API Clone

github.com/emilsharkov/ChatGPTAPIClone

- Designed a scalable API cluster that answers prompts similarly to ChatGPT using AWS, Python, and LLMs

SKILLS

Front End HTML, CSS, Tailwind, JavaScript, TypeScript, React, React Native, Electron, Angular

Back End Python, FastAPI, Node, Express, Go, Java, SQL

Deployment AWS, Docker, Kubernetes, Github Actions, Terraform, Bash