

Kelly Truong

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EDUCATION

COLUMBIA UNIVERSITY

BSc IN COMPUTER SCIENCE

Aug 2023 - May 2027

School of Engineering and Science
Gates, Dell, Questbridge Scholar

LINKS

LinkedIn:

www.linkedin.com/in/kellybtruong

GitHub:

www.github.com/superrrk

Personal Website:

kellytruong.netlify.app

COURSEWORK

Fundamentals of Computer Systems

Advanced Programming

Data Structures

Discrete Mathematics

Multivariable Calculus

Introduction to Java

Introduction to Computing

SKILLS

PROGRAMMING

Proficient:

Java • Python • C

Competent:

JavaScript

Familiar:

Swift • SQL

TECHNOLOGIES

Libraries & Frameworks:

React • Flask

Tools:

Git • GitHub

Visual Studio Code • XCode

Netlify • Heroku

Miscellaneous:

SCSS • JSON

EXPERIENCE

BP | QUANTUM COMPUTING INTERN

May 2024 - Aug 2024

- Optimized Mixed Integer Programming (MIP) problems by benchmarking quantum, hybrid, and classical solvers, reducing constraint violations in 95% of test cases to 0% while collaborating with a quantum start-up
- Collaborated with a quantum start-up to integrate novel QUBO transformation algorithms, improving solver throughput by 80%
- Presented findings to a team of 40+, emphasizing investment rationale and business value, and earned trust by clearly articulating performance metrics

ACCENTURE | CONSULTANT INTERN

May 2022 - Aug 2022

- Produced an MVP (Minimum Viable Product) and a pitch deck addressing efficient and active studying methods within an all-in-one hub-style app as a personal project
- Trained professional storytelling, data analysis, and branding skills to present a group project to 200+ industry professionals within the Accenture network

PROJECTS

PORTFOLIO OPTIMIZER

Full-Stack interactive portfolio optimizer based on the Markowitz model

- Engineered a full-stack Python Flask application leveraging the Markowitz model to help users visualize the efficient frontier and dynamically adjust risk exposure.
- Calculated Sharpe ratio and portfolio variance using NumPy, providing robust analytics and real-time performance evaluations with Chart.js visualizations.

FAKE IMAGE DETECTOR

Neural network for classifying AI-generated vs. real human faces

- Developed a custom CNN using PyTorch, achieving 87% accuracy in distinguishing AI-generated vs. real faces on a dataset of 1,000+ images.
- Deployed the model as a full-stack Flask web app, leveraging AWS S3 and AWS CLI for hosting static assets and automating deployments.
- Implemented real-time predictions and confidence scores for uploaded images, utilizing saliency maps for explainability and user trust.

PERSONAL WEBSITE

React website showcasing personal projects, resume, and contact form

- Designed and deployed a React.js based website using Netlify to showcase personal software projects, technical skills, and professional experience.
- Customized styling with SCSS to create an intuitive and professional user experience with animations across components.

ACTIVITIES

Rewriting the Code - Member

Girls Who Code - Member

Kode with Klossy - Member

CU Jumpstarting Aspiring Developers and Entrepreneurs (JADE) - Member