BRICE PATCHOU

patchou@usc.edu | (301)-624-9842 | www.linkedin.com/in/brice-patchou | Los Angeles, CA | https://one-portfolio-drab.vercel.app/

EDUCATION

University of Southern California, Viterbi School of Engineering — Los Angeles, CA
Computer Science and Business Administration Bachelor of Science, **GPA:** 3.64 — May 2026
  Honors: USC Presidential Scholar, Viterbi Scholar, Dean's List Recognition (2023-2024), Peer Mentor Certification
  Relevant Coursework: Data Structures and Algorithms, Intro to Machine Learning, Software Engineering

PROJECTS

Gekko — Sponsors for Educational Opportunity
Intern Developer — July 2024
- Designed and implemented algorithms for analyzing stock market trends using real-time data retrieval through APIs.
- Developed a dynamic web app that offers users visualizations and news stories for selected companies using Python (Flask) and JavaScript.
- Enhanced performance and user experience through testing and agile collaboration.

Trojan Marketplace — USC Viterbi School of Engineering
Student Developer — December 2023
- Spearheaded a student team to build a Next.js-based marketplace, enhancing school commerce efficiency.
- Employed Tailwind CSS and DaisyUI for a responsive frontend to implement four out of eight core features.
- Led team meetings to prototype and structure the site with Figma and Lucidchart, streamlining development.

Restaurant Review Website — USC Viterbi School of Engineering
Student Developer — December 2023
- Developed an interactive frontend for restaurant review website using HTML, CSS, JavaScript, and jQuery for seamless navigation.
- Integrated Google Maps and Yelp APIs to enable advanced search functionality, allowing users to filter restaurant options based on location, cuisine, and ratings, improving result accuracy.
- Designed and implemented a secure user database using SQL and Java, safeguarding personal details.

WORK EXPERIENCE

Sponsors for Educational Opportunity — Remote
SEO EDGE Participant — July 2024 - Present
Tech Developer Intern — May 2024 - August 2024
- Completed 300+ hours of rigorous training focused on data structures, algorithms, and full-stack web development.
- Led small discussion/review sections for 10-20 students to reinforce course concepts and foster active learning.
- Developed software in SCRUM-like teams, designing, testing, and implementing full-stack applications with Python (Flask), MySQL, HTML, JavaScript, CSS, and APIs.

University of Southern California — Los Angeles, CA
Undergraduate Teaching Assistant — August 2023 - May 2024
- Conducted regular office hours to offer academic support and address student inquiries.
- Led small discussion/review sections for 10-20 students to reinforce course concepts and foster active learning.
- Provided grading assistance for assignments, exams, and projects under instructor guidance for a 400-student C++ class.

LEADERSHIP AND INVOLVEMENT

USC Residential Education — University of Southern California
Residential Assistant — April 2024 - Present
- Increase resident engagement by organizing community-building events like soccer games and study nights.
- Support 30+ residents emotionally and academically, fostering a supportive living environment by offering guidance and resources.
- Seek feedback from peers and advisors to refine leadership strategies and meet residents' needs better.

Center for AI in Society (CAIS++) — University of Southern California
Cohort Member — September 2022 - Present
- Committed 3-4 hours a week learning Python and Deep Learning methods through the club's curriculum.
- Constructed a Neural Network that used timbre values to determine what year a song came from.
- Integrated Transfer Learning and Fine-Tuning to create a Neural Network that could differentiate pictures of chihuahuas and muffins.

National Society for Black Engineers (NSBE) — University of Southern California
Senator — September 2023 - May 2024
- Improved the representation of black engineers in the tech industry and at USC.
- Attended National and Regional NSBE Conferences to voice the opinions and concerns of NSBE members in decision-making processes.

SKILLS

Software: Java, Python, C++, Pandas, Scikit-Learn, TensorFlow, PyTorch, Matplotlib, NextJs, SQL, DaisyUI, Flask, JavaScript
Languages: French (Fluent), Russian (Conversational)