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

SKILLS

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

WORK EXPERIENCE

The Boeing Company — Pleasanton, CA
Software Engineering Intern — May 2025 - August 2025
- Authored an in-depth technical guide outlining the structure and intent of 20+ unit tests, enabling seamless collaboration and faster integration across engineering teams.
- Implemented infrastructure upgrades to the existing system using C# for enhanced logging, debugging, and management of spurious errors, facilitating early detection of potential production issues.

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.

PROJECTS

DemandGenie — National Society for Black Engineers, National Hackathon
First Place Winner — March 2025
- Secured first place by developing an AI-driven tool that accurately predicts product demand, enhancing inventory management.
- Implemented Retrieval-Augmented Generation to train a Large Language Model (LLM) generating key insights from user prompts.
- Designed an intuitive user interface with React and Flask, incorporating real-time news to ensure accessibility for non-technical users.

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 offering visualizations and news stories for selected companies using Python (Flask) and JavaScript.
- Enhanced performance and user experience through testing and agile collaboration.

LEADERSHIP AND INVOLVEMENT

USC Residential Education — University of Southern California
Residential Assistant — April 2024 - May 2025
- Increase resident engagemen**t** 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.

National Society for Black Engineers (NSBE) — University of Southern California
Senator — September 2023 - May 2024
- Attended National and Regional NSBE Conferences to represent campus chapter of NSBE members in decision-making processes.
- Secured $1,000 in funding for the USC chapter.
- Spearheaded a barbecue event among schools that brought together 50 attendees to foster community engagement.