

# BRICE PATCHOU

patchou@usc.edu | (301)-624-9842 | [www.linkedin.com/in/brice-patchou](https://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.
- Developed robust unit tests for a new Boeing product using C#, ensuring early bug detection and reducing potential production errors by increasing code reliability.

**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 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.

**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.