

# Ankita Budhraja

+1 5107140970 | ankita\_budhraja@berkeley.edu | [LinkedIn](#) | [GitHub](#)

## Summary

Versatile Software Engineer with proven track record bridging gaps between problems and solutions for cross-functional global teams. Proficient in crafting tools, extracting insights, optimizing tasks, and excellent debugging skills. Superpowers: Collaboration and Empathy.

## Skills

Python, Java, C#, Javascript, vbScript, Django, Flask, HTML, CSS, React, Node.js, Celery, GIT, Docker, Jenkins, AWS, PostgreSQL, MongoDB, Selenium, Postman, HP UFT, HP ALM, Jira, Scrum Master

## Work Experience

- Capstone Project, ([UC Berkeley](#))** Nov 2023 - May 2024
- Developed an innovative news aggregation app Echotune, integrating GNews API for dynamic article fetching aligned with user interests. Implemented features using cutting edge technologies and AI for real-time summary generation and audio playback. Optimized data handling and state management in React, backend and auth using Django
- Backend/ML Intern, ([Rimble Inc](#))** Oct 2023 - Dec 2023
- Facilitated data transformation of joblib and SAV files from S3 storage to extract crucial features, enabling development of Python-based data pipelines using AWS for efficient in-game predictions in esports analytics like CSGO, Valorant, Call of Duty, and League of Legends
- Computer Engineering Intern, ([Safran Test Cells](#))** May 2023 - Aug 2023
- Integrated Hamster IV scanner to Safran applications, providing secure fingerprint login for test cell operators and employees
  - Developed C# based slider control to adjust aircraft simulation power levels in Test Cell environment
- Software Development Engineer, ([McAfee](#))** Jul 2019 - Jun 2022
- Spearheaded Python agent development to evaluate product impact on endpoints, contributing to McAfee's positioning as a Leader in Gartner Magic Quadrant
  - Managed API test suite pipeline using MITRE ATT&CK framework for Endpoint Detection and Response tech, saving 112 hours/week and improving product release decisions
  - Developed UI and backend framework, enhancing development pipeline efficiency by 80% to guarantee successful product launches at events
- Senior QA Engineer, ([Amadeus Labs](#))** Apr 2018 - Jun 2019
- Led change request validations for Operational Flight Data Monitoring for Air France and Lufthansa, ensuring large-scale implementation
  - Automated re-accommodation features for Southwest Airlines, delivering comprehensive functionality to enhance customer experience
  - Owned and maintained smoke, sanity, and regression test suite, supporting critical weekly deployment decisions.
  - As Sheriff, led cross-team effort to detect and fix significant bugs, improving overall product quality
- Software Engineer, ([Amadeus Labs](#))** Jul 2015 - Mar 2018
- Streamlined and managed UI testing for a native airline Java application, resulting in improved efficiency and integration with CI/CD tools
  - Developed a reusable Python framework for end-to-end testing, leveraging electronic data interchange for overall seamless integration

## Education

- Master of Information Management and Systems** [University of California, Berkeley](#) 2022-2024
- B.Tech Information Technology** [Vellore Institute of Technology](#) 2011-2015

## Projects

- Developed a Task Manager integrating Agile methodologies with object-oriented programming to ensure robustness. Employed Test-driven Development for full coverage, paired with CI/CD DevOps via GitHub Actions to maintain code quality and performance
- Extended and productionalized a chatbot system integrated with email queueing with efficient backend development. Persisted endpoints in PostgreSQL, and added Redis cluster and worker service for asynchronous email sending using SendGrid
- Implemented an AI-Powered Travel Recommendation System using GPT and OpenWeather REST APIs that helps users plan their trips, maintain and email their wishlist by getting weather forecasts and recommendations for the desired destination
- Developed a News and Movie Recommendation System utilizing tokenization, cosine similarity, normalization, BM25 ranking, and tf-idf vectorizer. Data sources: moneycontrol.com and Kaggle
- Conducted a detailed analysis of SQLite vs NumPy for small-scale databases, to compare query speed and memory efficiency
- Contributed to a research project using biosensory product NeuroSky MindWave to study the cognitive effects of music and visuals. Managed setup, data collection, and analysis, revealing insights into attention and meditation levels influenced by sensory inputs