Kavya Kaushik

+27644225684 | kavyaashi10@gmail.com | LinkedIn

SUMMARY

I am a final-year Electrical and Computer Engineering student with hands-on experience in software development, AI-driven applications and backend web technologies. Beyond technical skills, I have a proven track record of leading technical teams and managing tech communities, including serving as the Lead of the Google Developer Student Club at UCT. I excel in problem-solving, strategic planning, and collaborating within a team to deliver innovative technology solutions. Passionate about leveraging software engineering and AI to solve real-world challenges, I am eager to contribute my expertise in dynamic and high-impact environments.

EXPERIENCE

Software Engineer Intern, Sourcy, Remote   **Jul 2025 — Present**
- Analyzed large-scale TikTok datasets using statistical methods to uncover content trends and audience insights.
- Developed computer vision pipelines to extract and engineer video features, improving the depth of trend analysis.

Software Developer Intern, Electrum Payments   **Jun 2025 — Jul 2025**
- Designed MySQL schemas, wrote migration scripts, and implemented Java DAOs and stored procedures to improve job tracking for the finance-app.
- Implemented comprehensive unit and integration tests using JUnit, Mockito and Docker to enhance operational visibility of the job lifecycle.

Software Engineering Intern, CaliVision   **Jan 2025 — Feb 2025**
- Built a computer vision system for fitness-focused AI using Python and OpenCV, leveraging stereo vision for accurate and real-time human detection and tracking across various images and videos.
- Led the AI team where we worked on implementing YOLO, MediaPipe, OpenPose and similar computer vision algorithms for human pose estimation for the calisthenics-based AI coach.

Software Engineering Intern, Trixta AI   **Nov 2024 — Dec 2024**
- Designed and implemented an interactive onboarding tool to help new interns identify and select areas of interest within the company, enabling them to align the internship with their career goals.
- Built the integrated custom UI components of the onboarding tool using Trixta's Nexus platform, integrated with React and Elixir, ensuring seamless data flow while enhancing usability and user engagement.

Software Engineering Intern, Impact.com   **Jun 2024 — Jul 2024**
- Worked on the initial stages of a proof-of-concept (POC) internal social network, creating UML diagrams and backend logic using Java, SpringBoot and various social media APIs.
- Implemented knowledge graph functionalities using Neo4j, Cypher queries and wrote comprehensive unit tests for validation.

Software Intern, Mandla Money   **Jun 2023 — Jul 2023**
- Tested robust backend modules and generated user documentation, enabling seamless onboarding for new users.
- Gained valuable insights from the backend of a blockchain-based SMS money transfer application utilising XRP funds.

Software Development Intern, Empire Partner Foundation   **Jun 2022 — Jul 2022**
- Collaborated with interns to develop the back-end of an incubation hub website for onboarding and managing startups using Python, Django and Heroku.
- Created full-stack web components with HTML, CSS, and SQLite.

EDUCATION

University of Cape Town - *Bachelor, Electrical and Computer Engineering*   **Jan 2022 — Dec 2025**
Received Dean's Merit list award for first, second and third years. Received merit-based entrance scholarship worth R60 000.

Bryanston High School - *High school diploma - (GPA: 90%)*   **Jan 2017 — Dec 2021**
Matriculated with 8 distinctions and a 90% final average. Received two Honours blazers - the school's highest award.

SKILLS

Programming Languages	: Python, Java, HTML, SQL
Frameworks & Tools	: Django, Heroku, GitHub, Spring Boot
Technologies	: Machine Learning, Blockchain, Knowledge Graphs
Soft Skills	: Leadership, Strategic Planning, Team Collaboration
Database Technologies	: Cypher, Neo4j

AWARDS AND LEADERSHIP

Lead, Google Developers Student Club, UCT   **Aug 2023 — Jul 2024**
Selected by Google to lead the GDSC which is a tech-based community of around 300 people at UCT. I have organised coding workshops, networking events and hackathons aimed at helping students bridge the gap between academic knowledge and its application.

Finalist, McKinsey Future Leaders Prize Event   **Aug 2022**

I was one of seven finalists selected among first-year university students across South Africa after an intensive selection process including a competitive essay round, two business case interviews and a personal interview.

Finalist, Global Youth Science and Technology Bowl   **Nov 2021**

I was one of three finalists chosen to represent South Africa at the virtual GYSTB 2021 for my project titled 'Detection and Classification of Cardiac Arrhythmia using Machine Learning'. I received a special award in my project category across 106 projects chosen across the globe.

Finalist, Eskom Expo for Young Scientists   **Sep 2019 — 2020**

Two-time finalist at the Eskom International Science Fair hosted for students across Africa, Indonesia and Turkey. I won a silver medal in 2020 and a bronze medal in 2019.

Dean's Merit List Recipient, University of Cape Town   **Jan 2022 — Dec 2024**

Consistently recognised as one of the top performing students at the University of Cape Town for maintaining a GPA of above 70%.

REFERENCES

Joseph Lumbahe
Sr. AI Technology Specialist | Microsoft
Email: jlumbahe@microsoft.com
Ph: +27 79 265 7165