

TEHJ KUMAR PATEL

Stanmore, London · 07853 006111

tehjpatel@gmail.com · github.com/t3hj · linkedin.com/in/tehj-k-patel

PROFILE

Computer Science graduate with a Bachelor of Science (BSc) and Second Class (Upper Division) Honours (2:1) from Brunel University London, seeking graduate opportunities in software engineering, AI, or cybersecurity. Developed *Local Lens* as my Final Year Project, achieving an A grade for designing and building a full-stack AI-powered civic reporting platform integrating Claude Vision AI, Supabase, geolocation, and a custom priority-scoring engine. Recipient of the Brunel READY Certificate of Employability Skills, READY Leadership Award, and Academic Excellence CEDPS Scholarship. Over two years' experience teaching programming and robotics to more than 500 students, alongside active cybersecurity learning through TryHackMe.

EDUCATION

BSc Computer Science · *Brunel University London* Sept 2023 – June 2026

- Graduated with Second Class (Upper Division) Honours (2:1)
- Final Year Project (Computer Science Project): A
- Selected Year 3 results: Cybersecurity (A+), Advanced Topics in Computer Science (A), Computer Science Project (A), Artificial Intelligence (B–)
- Selected Year 2 results: Group Project (A–), Usability Engineering (B+)
- Selected Year 1 results: Software Implementation Event (A+), Software Design (A), Group Project Reflection (A), Logic and Computation (A–)

BTEC Level 3 Extended Diploma — IT · *Stanmore College* Sept 2021 – June 2023

- Grade: D*D*D* — Triple Distinction Star (highest achievable grade)

9 GCSEs · *Park High School, Stanmore* 2016 – 2021

- Including Mathematics (7), Computer Science (7), Combined Science Trilogy (6/6)

ACHIEVEMENTS & AWARDS

Academic Excellence CEDPS Scholarship · *Brunel University London* 2023-26

Awarded in recognition of strong academic performance and achievement.

READY Certificate of Employability Skills · *Brunel University London* 2025

Awarded the Certificate of Employability Skills through Brunel's competitive READY Programme, recognising demonstrated professional competencies including commercial awareness, communication, and problem-solving under assessment conditions.

READY Leadership Award · *Brunel University London* 2025

Separately awarded the READY Leadership Award, recognising leadership capability assessed across the programme. Both credentials are issued to a select cohort from across the university and are valued by graduate employers.

Software Implementation Event — A+ · *Brunel University London* 2023–24

Awarded the highest grade in a timed software implementation assessment, demonstrating ability to deliver functional, well-structured code under time-pressured conditions.

EMPLOYMENT

Robotics & Coding Instructor · *RoboThink* Oct 2022 – Present

- Deliver Python and RoCode workshops to 30+ students aged 4–14, from programming fundamentals to hardware integration with LEDs, IR sensors, and AI modules
- Redesigned lesson plans and coding challenges to improve clarity and progression, increasing measurable student engagement
- Practised explaining complex technical ideas accessibly — directly transferable to code reviews, technical writing, and team collaboration

Team Member · *Chilled Gelato* Aug – Sept 2022

- Handled transactions, stock management, and customer resolution in a fast-paced environment

PROJECTS

Local Lens — AI Community Issue Reporting Platform

Final Year Project · 2025–26

Full-stack civic tech application enabling residents to photograph and submit structured reports on local council issues. Claude AI vision analyses uploaded images and automatically pre-fills the report — category, severity, recommended action — reducing manual effort to near zero. Includes a council dashboard with a priority queue, bulk management tools, and a resident account system.

- Custom priority scoring engine (0–100) combining AI severity, time-open, community upvotes, and local report density to surface the most urgent issues for council officers
- Security and anti-abuse controls: SHA-256 image hashing prevents exact-duplicate submissions; Haversine proximity checks detect nearby similar reports; reporter cooldown blocks repeat submissions within 4 days
- Geolocation pipeline: GPS extracted from image EXIF metadata, Nominatim geocoding fallback, and interactive Folium map with pin, heatmap, and cluster modes
- Supabase for authentication, cloud storage, and relational database; SMTP email notifications on report status changes; containerised with Docker

Python · Streamlit · Supabase · Claude API · Folium · Pandas · Pillow · Geopy · Docker · pytest

SwiftBot Navigation Programme

Top-graded · Java

- Programmed a physical robot to read QR code navigation commands and execute movement sequences with configurable speed and duration, input validation, movement retracing (T command), and command logging to file — awarded top marks at university

File Organiser Bot

Python · Tkinter · tqdm

- Desktop automation tool with a Tkinter GUI that recursively organises a file directory by type, date (year / month / week), and sub-category (Word, PDF, Excel, etc.)
- Regex-based duplicate detection quarantines conflicting files; live progress bar via tqdm; optional post-run empty-folder cleanup

College Mobile App Mock-Up

C# · XAML · Windows UWP

- Multi-screen Windows application featuring user authentication, personalised timetables, cafeteria menus, department pages, and assignment tracking — demonstrates cross-platform UI development and data management in a different tech stack

TECHNICAL SKILLS

Languages: Python (Advanced), Java (Intermediate), JavaScript (Intermediate), C# (Intermediate), C++ (Basic)

Web & Frameworks: HTML5, CSS3, React.js, Node.js, Streamlit

Backend & Data: Supabase, SQLite, RESTful APIs, Pandas, Pillow, Geopy, Tkinter

AI & ML: Anthropic Claude API (vision & text), Ollama / LLaVA, machine learning fundamentals

Infrastructure: Git & GitHub, Docker, Cloud Storage, SMTP integration, Logging

Security: Cybersecurity (Year 3 module), Networks & OS (Year 2), SHA-256 hashing, secure credential management, TryHackMe (active)

Practices: Agile / Scrum, OOP, service-layer architecture, pytest, technical documentation

CONTINUOUS LEARNING

- TryHackMe — actively completing cybersecurity learning paths including Pre-Security and SOC Level 1 tracks
- Year 3 Cybersecurity and Artificial Intelligence modules at Brunel University (2025–26)

INTERESTS

Black belt in Taekwondo · Climbed Ben Nevis · Football

References available upon request