

Akshat Pandey

akshatpandeymyself@gmail.com | +31-62-619-3357 | Eindhoven, Netherlands
akshatpandey.com | linkedin.com/in/AkshatPandey1 | github.com/AkshatPandey1

EDUCATION

- Eindhoven University of Technology (TU/e)** **Eindhoven, Netherlands**
MSc. in Information Security Technology (Master Honors Program) *Sep. 2025 – Present*
 - Courses: Advanced Network Security, Intrusion Detection, Verification of Security Protocols
- University of Alberta** **Edmonton, Canada**
BSc. in Computer Science (Specialization in Software Practice) *Sep. 2020 – Apr. 2025*
 - Dean's List (2020–21) | DevCon 2021 Winner | International Country Scholarship

TECHNICAL SKILLS

OT/ICS & Protocols: Contiki-NG, RPL/6LoWPAN, IEEE 802.15.4, S7comm, Zeek, ICS/SCADA forensics
Offensive Security: Metasploit, Burp Suite, Wireshark, Nmap, Cowrie, Kali Linux, OWASP Top 10, MITRE ATT&CK
Languages: Python, Bash, C, C++, Java, JavaScript, TypeScript, SQL
Cloud & DevOps: AWS (Glue, S3), Docker, Terraform, GitHub Actions, GitLab CI/CD, DigitalOcean

EXPERIENCE

- Blackbuck Insights** **Illinois, USA**
DevOps Engineer *Jun. 2023 – Jul. 2024*
 - 7 financial ETL pipelines on AWS Glue/S3; GitLab CI/CD with security-gated regression checks
- Koalacademy** **Edmonton, Canada**
Frontend Developer *Jan. 2023 – Apr. 2023*
 - React frontend for a BCI learning platform; integrated live EEG hardware data alongside neuroscience researchers
- University of Alberta** **Edmonton, Canada**
Teaching Assistant – Systems Programming *Jan. 2023 – Apr. 2023*
 - Weekly C and Unix labs for 40+ students; graded 70+ assignments with written feedback on systems programming
- Amelia** **Toronto, Canada**
React Native Developer *Sep. 2022 – Jan. 2023*
 - Cross-platform features with AWS Amplify auth and S3 media; tracked down performance regressions across iOS and Android

PROJECTS

- Stuxnet ICS Forensic Investigation** TU/e – Intrusion Detection Lab
Zeek, S7comm, ICS/SCADA Forensics, Wireshark *Feb. – Apr. 2026*
 - Forensic analysis of a Stuxnet ICS infection across a 4-subnet network using Zeek; traced S7-400 PLC compromise via CVE-2010-2772
- RPL Blackhole Attack & Defense** TU/e – Advanced Network Security
C (Contiki-NG), Python, nRF52840, RPL/6LoWPAN, IEEE 802.15.4 *Feb. – Apr. 2026*
 - Ran a **rank-spoofing blackhole** attack on real nRF52840 + CC2650 hardware; exploited OF0 to drop routing across the mesh
 - Victim-side DAO retransmission defense with persistent parent blacklisting; 4-node SSH serial log monitor
- Portfolio with Embedded CTF Challenges** Personal Project
Next.js, React, Tailwind CSS *Jul. 2025 – Present*
 - 4 CTF challenges (steganography, crypto, recon) built into a hacker-terminal portfolio site, live at akshatpandey.com
- ActionKin** University Project – Deployed for Live Startup
Python, Selenium WebDriver, PyTest, GitHub Actions *2024*
 - E2E test suite for a live startup product, headless browser tests with screenshot reporting, hooked into GitHub Actions CI/CD