

JOEL CHIRAYATH

Aspiring Software Engineer & Cybersecurity Specialist | Open to Work

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PROFESSIONAL SUMMARY

Driven **Software Engineer and Cybersecurity Analyst** with a robust background in **penetration testing, software development, and IT security**, complemented by expertise in **core electronics**. I am adept in **Python, C++, SQL, Bash scripting, and OSINT** methodologies. My experience includes conducting vulnerability assessments, performing risk analyses, and developing security protocols. I have a keen interest in **AI, robotics, and cybersecurity**, backed by practical experience with **Linux environments, Windows security frameworks, and ethical hacking practices**. Additionally, I have experience with **machine elements** and **theory of machines and mechanisms (TMM)**, supported by relevant coursework.

KEY SKILLS

- **Programming:** Python, C++, Java, Bash, HTML, CSS, SQL
 - **Cybersecurity:** Penetration Testing, OSINT, Risk Assessment, Kali Linux, Windows Security, Network Security
 - **AI & Machine Learning:** TensorFlow, Neural Networks, Deep Learning
 - **Operating Systems:** Linux (Ubuntu, Kali), Windows
 - **Web Development:** HTML, CSS
 - **Scripting & Automation:** Bash, Windows CMD
 - **Engineering Tools & Skills:** SolidWorks, MITCalc, Theory of Machines and Mechanisms (TMM), Machine Elements
 - **Soft Skills:** Team Collaboration, Critical Thinking, Problem Solving
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EDUCATION

Bachelors in Software Engineering (*Expected 2027*)

Vilnius University, Lithuania

Bachelors in Mechatronics and Robotics (*2019-2022, incomplete due to relocation*)

St. Thomas College, Thrissur, India

Higher Secondary Education (2016-2018)
AKM HSS, Poochatty, India

WORK EXPERIENCE

Junior Penetration Tester

- Conducted vulnerability assessments and penetration testing on enterprise systems.
 - Analyzed system weaknesses and provided recommendations for security improvements.
 - Assisted in developing security protocols to enhance system resilience.
 - Collaborated with cross-functional teams to strengthen IT security measures.
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PROJECTS & PRACTICAL EXPERIENCE

- **Developed a Python-based OSINT** tool for automated data gathering.
 - **Created a Linux security audit script** to detect vulnerabilities in Ubuntu servers.
 - **Designed a machine learning model** using TensorFlow to identify phishing attacks.
 - **Built an SQL injection detection system** to improve database security.
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CERTIFICATIONS

- Certified in Cybersecurity
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LANGUAGES

- English: Fluent
- Lithuanian: Proficient
- Malayalam: Fluent