



Profile

MSc Computer Science graduate from Eindhoven University of Technology with research experience in empirical software engineering, data analysis, human-computer interaction, and interactive software systems. Completed an industry-based master’s thesis at Canon Production Printing under the supervision of Prof. Alexander Serebrenik, awarded 9. Experienced in Python-based data analysis, software prototyping, dashboard development, and empirical evaluation, with research interests in human-centered AI, HCI, data-driven systems, and software engineering.

Education

Eindhoven University of Technology <i>MSc in Computer Science</i>	Sept 2024 – Present Eindhoven, Netherlands
Vellore Institute of Technology <i>Bachelors in Computer Science</i>	Sept 2020 – May 2024 Vellore, India

Work Experience

Canon Production Printing <i>Master’s Thesis Researcher – Software Engineering & Data Analysis</i>	Dec 2025 – Sep 2026
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- Conducted an empirical study of recruitment signals in software-engineering vacancies under the academic supervision of Prof. Alexander Serebrenik; thesis awarded 9.
- Developed a reproducible analysis framework for identifying technical, role, information, and language signals across vacancy text using Python-based text processing and structured coding.
- Designed and implemented an interactive React/FastAPI research prototype and evaluated the approach through a perception study and stakeholder evaluation at CPP.

Eindhoven University of Technology <i>Research Intern – Data Science</i>	Apr 2025 – Jul 2025
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- Investigated the relationship between hackathon duration and event characteristics under the supervision of Dr. Alexander Nolte.
- Built Python and BeautifulSoup pipelines to collect, clean, and structure large-scale Devpost hackathon data.
- Developed analytical workflows and deployed an interactive Streamlit dashboard using Docker on TU/e infrastructure.

Projects

Video Captioning using Deep Learning Published Research <i>Python, CNN, LSTM, Computer Vision, NLP</i>	2023
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- Developed a deep learning-based video captioning pipeline combining CNN-based visual feature extraction with LSTM sequence modelling to generate natural-language descriptions from video content; the work was subsequently published as a research paper.

Classification of Trigger Factors in Migraine <i>Python, Tableau, Healthcare Data Visualization</i>	Nov 2023
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- Analyzed health-related datasets to identify patterns among migraine trigger factors and created Tableau dashboards for temporal, correlation, and geospatial insights to support clearer interpretation.

Leadership

Head of Design – Ayuda NGO Led design and visual communication activities for a 60-member student team.	2022 – 2023
Creative Head – Institution of Engineers, IEI India Led creative work for technical events and hackathons.	2022 – 2023

Skills

Programming Python, Java, C/C++, SQL, JS, HTML/CSS, React, FastAPI
Data & Analytics pandas, NumPy, scikit-learn, Tableau, Power BI, Plotly, Statistical Analysis
Software & Tools FastAPI, React, Power BI, Streamlit, Git, Docker, Figma, BeautifulSoup
Core Areas Software Engineering, OOP, Database Management, A/B Testing, Statistical Analysis, Front-end basics, UI/UX Design, Interaction Flow, User-Centered Design, Dashboard Prototyping
Conference

IRCCTSD’24 Presented: <i>Video Caption Generation Using Deep Learning</i> SRM University, Chennai	May 2024
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Languages

English – Proficient
French – Advanced
Dutch – A1 (Actively Learning)
IELTS: 7.5

References

Prof. Dr. Alexander Serebrenik Eindhoven University of Technology Full Professor / MSc thesis Supervisor a.serebrenik@tue.nl
Dr. Alexander Nolte Eindhoven University of Technology Research internship supervisor / HCI course a.u.nolte@tue.nl
Dion Slijp Canon Production Printing, Venlo Dept. head/ MSc thesis Supervisor Contact details available upon request