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Software Engineer

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Education

2019 – 2023 **BSc Computer Science, Internet Engineering**
Warsaw School of Computer Science

Experience

- 2022 – now **Software Engineer**
Samsung R&D Institute Poland
- Full-stack development of internal web platforms and tools: Django and DRF backends, Angular and the HTMX + Alpine.js frontends, Celery/Huey + RabbitMQ task pipelines and Docker-based deployments. Responsible for UI/UX design and dependency upgrades. On the AI side: prompt engineering for LLM features, data vectorization for semantic search, and creating custom skills for AI coding agents such as Claude Code and Cline. Agile teams with code reviews and CI/CD on GitHub Actions.
- 2021 – 2022 **Data, Testing & Web Development**
Voxsoft Sp. z o.o.
- Built and maintained responsive websites for real estate developers and an internal WordPress plugin. Handled data import and cleaning with SQL, Python and Excel, prepared document templates in Word, and manually tested a web application for real estate developers.

Projects

- Full-stack **AI Document Audit** – *Samsung*
- Automates the auditing of documentation.
- AI Audit Platform**
- Document auditing and process automation platform with LLM-powered document analysis. I owned the frontend and deployment, maintained the production instance, and worked with the team on the backend (Celery with RabbitMQ) and CI/CD (GitHub Actions). I wrote the prompts for document analysis, and after heavy experimenting with file conversion built my own hybrid converter combining libraries such as Docling and MarkItDown. Document anonymization.
- 🔧 Django 🔧 DRF 🔧 REST API 🔧 Angular 🔧 PrimeNG 🔧 Tailwind CSS 🔧 PostgreSQL 🔧 RabbitMQ
- 🔧 Celery 🔧 GitHub Actions 🔧 OpenAI API 🔧 Docker
- AI Audit Skill**
- Skill that helps project leaders verify their documents against reference documents, created on my own initiative. Gathers information from the AI Audit Platform REST API.
- 🌟 Claude 🔧 REST API
- AI Audit Gatherer**
- Helped build a microservice that gathers the data needed for an audit using Selenium and external APIs.
- 🔧 Python 🔧 Selenium

Full-stack

AuthorRights Automation – Samsung

Generates developer productivity and AI-contribution reports from git history, attributing code to AI or people via Co-Authored-By markers. A side project I started on my own initiative and built alone.

Web platform

Multi-repository batch processing and scheduled report runs.

 Django  DRF  Celery  Angular  Angular Material  Tailwind CSS  PostgreSQL  Docker

AuthorRights Skill

Does the same job as the platform, but runs locally on the developer's machine. Uses Python and Playwright.

 Python  Playwright  Claude

Full-stack

AI Code-Fix Data Platform – Samsung

Platform that collects, preprocesses and prepares code-fix data for training and running generative AI models, and lets people review and correct it. I worked on reimplementing the proof of concept (FastAPI + React) in Django. Built from four parts:

Web platform

Code review platform with AI-generated fix suggestions, building a database of fixes for popular defects. Indexing and semantic search over embeddings, scheduled Celery pipelines and an OpenAPI-documented REST API, with an HTMX and Alpine.js UI.

 Django  DRF  REST API  Celery  HTMX  Alpine.js  Tailwind CSS  Monaco Editor

 PostgreSQL  Qdrant  Sentence Transformers

Crawler

Modular, configuration-driven crawlers that collect code-defect data from static analysis tools such as Coverity, with scheduling, retries and data normalization. I was responsible for refactoring them.

 Python  requests  Pydantic Settings

Client library

Wrapper for the web platform: a typed Python client for its REST API with Pydantic validation, async HTTP and retry handling.

 Python  httpx  Pydantic  pytest

Multi-language Code Scope Extractor

Python library that extracts function and class scopes from Python, C, C++ and Java code using Tree-sitter. Fully typed, tested and published to an internal package index.

 Python  Tree-sitter  mypy  pytest

Frontend

Test Infrastructure Management – Samsung

Migrated a legacy frontend to Angular, improving performance, maintainability and user experience. Integrated new REST APIs together with the backend team.

 Angular  Angular Material  TypeScript  RxJS  WebSockets

Full-stack

Code Health Automation – Samsung

Collects code-health metrics from Splunk, GitHub and other sources on per-source schedules, aggregates them and publishes reports to Confluence, with an Angular dashboard for monitoring. Configuration-driven and extensible, with retry and recovery for unreliable sources. A side project I started on my own initiative and built alone.

 Python  Django  DRF  Angular  Angular Material  RxJS  Docker  Splunk API

 GitHub API  Confluence API

Frontend

nowatkalnia.pl ↗ – Voxsoft

Responsive website for a real estate developer.

 WordPress  PHP  HTML

Frontend	<div>sohoresidence.pl  – <i>Voxsoft</i></div> <div>Responsive website for a real estate developer.</div> <div> WordPress  PHP  HTML</div>
Desktop	<div>Fanture  – <i>Personal</i></div> <div>Windows tray app for monitoring temperatures and controlling fan speeds, with a UI that feels native to Windows 11. A separate Windows Service owns the hardware and hands fans back to BIOS control when it stops. Ships as a Native AOT build with an installer.</div> <div> .NET  C#  .NET  WinUI 3  LibreHardwareMonitor  xUnit  Inno Setup  Astro</div>
Frontend	<div>tojar.io  – <i>Personal</i></div> <div>This website: a dependency-free static CV with light and dark modes, project filtering and themes.</div> <div> HTML  CSS  JavaScript  ESLint  Stylelint  Prettier  GitHub Actions  Cloudflare</div>
Frontend	<div>Pomodoro Clock  – <i>Personal</i></div> <div>Minimalist pomodoro timer with a to-do list, customizable settings and browser notifications. Installable as a progressive web app.</div> <div> Angular  Angular Material  TypeScript  RxJS</div>
Desktop	<div>Garry's Mod Content Assistant – <i>Personal</i></div> <div>Desktop tool that installs Garry's Mod game content in two clicks: finds the Steam directory, scrapes the download links, then downloads and unpacks the content into the addons folder.</div> <div> Python  Tkinter  BeautifulSoup  requests</div>

Skills

Frontend	<div> TypeScript  JavaScript  Angular  RxJS  WebSockets  HTMX  Alpine.js  PrimeNG</div> <div> Angular Material  Tailwind CSS  HTML  CSS  SCSS</div>
Backend	<div> Python  Django  Django REST Framework  FastAPI  Celery  Huey  Pydantic Settings</div> <div> REST API design  OpenAPI  Swagger  JWT authentication</div>
AI	<div> Prompt engineering  LLM integration  Data vectorization  Semantic search  Agents  Skills</div> <div> Workflows  Claude Code  Cline  OpenAI API</div>
Data & ML	<div> PostgreSQL  SQLite  Qdrant  Sentence Transformers  Docling  BeautifulSoup</div> <div></div>
Testing	<div> pytest  Factory Boy  Coverage.py  Vitest  Karma  Jasmine</div>
Tooling	<div> Docker  GitHub Actions  Git  Linux  uv  Vite  Make  mypy  Ruff  ESLint</div> <div></div>
Languages	Polish (native), English (C1)