

# Oğuzhan UÇAR

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## SUMMARY

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AI-driven software developer with a background in data analytics and a strong focus on automation. Specialized in using Large Language Models (LLMs) to rapidly prototype and deploy intelligent tools across platforms. Built and delivered 20+ automation tools in the last 2 months alone. Passionate about building end-to-end systems that optimize workflows, reduce repetitive tasks, and expand what's possible with AI.

## TECHNICAL SKILLS

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### Core Competencies: AI-Driven Development & Automation

- **LLM-Powered Code Generation:** Expertise in using LLMs (e.g., Gemini, GPT series, Grok, Claude) as a primary development tool to generate functional Python code for web applications, Chrome extensions, desktop GUIs, and automation scripts.
- **Advanced Prompt Engineering:** Skilled in crafting complex, multi-step prompts to guide AI in building applications with specific libraries, architectures, and functionalities.
- **System Architecture & Workflow Design:** Ability to design end-to-end automation pipelines, breaking down complex problems into logical steps suitable for AI-assisted implementation.
- **Rapid Prototyping & Iterative Debugging:** Proven ability to quickly build and deploy functional prototypes, and effectively debug and refine AI-generated code to achieve desired outcomes.

### Technologies & Libraries Orchestrated via AI

- **Backend & Web:** Flask, SQLAlchemy, SQLite
- **Desktop GUI:** PyQt5, Tkinter, CustomTkinter
- **Automation & Data Processing:** FFMPEG, Pandoc, Tesseract, PyAutoGUI, PyPDF2, python-docx, Pillow, Requests, PyWin32
- **Development Environment:** Git, GitHub, JSON, REST APIs

### Data & Business Tools

- **Data Analysis:** Excel (Advanced), Knime (Intermediate), Power BI (Intermediate)
- **Digital Marketing:** Familiar with Google Ads, Meta Ads, HubSpot

## FEATURED PROJECTS

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### AI-Powered Full-Stack Research & Learning Environment (Flagship Project)

- Architected and developed a full-stack AI research environment (Flask, SQLAlchemy, JavaScript), evolving a desktop concept into a comprehensive web platform with a companion Chrome Extension.
- Engineered advanced, personalized AI modules, including a contextual Writing Assistant for automated drafting and a "Learn Anything" tutor that uses user-curated content libraries for persistent, database-backed learning sessions.
- Automated the generation of complex academic materials, such as document summaries, multi-day study plans, varied exam types, and PowerPoint presentations, creating a fully integrated workflow from research to final output.
- **Technologies:** Python, Flask, SQLAlchemy, JavaScript, HTML/CSS, Google Generative AI, Chrome Extensions.



[Preview Demo Video](#) (Full, interactive demo available upon request)


## AI-Powered Content Workflow Automator

- Designed a sophisticated desktop tool with a Tkinter GUI to automate a multi-stage content creation and verification pipeline.
- Implemented a feature to automatically verify statistical data by scraping web links from source files using BeautifulSoup and performing fuzzy string matching.
- Utilized the Gemini API with user-defined prompts for complex text manipulation tasks, including content cleaning, keyword integration, and title revision based on SEO inputs.
- **Technologies:** Python, Tkinter, Requests, BeautifulSoup, Pandoc, Google Generative AI.

 [Preview Demo Video](#) (Full, interactive demo available upon request)

### Note Harvester: Desktop Utility (Available on [GitHub](#))

- Developed a robust desktop utility for instant information capture, allowing users to save selected text from any application using a global hotkey.
- Engineered a crash-proof listener mechanism to ensure high reliability and prevent conflicts, with the application running unobtrusively in the system tray.
- Features a clean Tkinter GUI for organizing notes into notebooks, filtering, and merging entries, providing a seamless workflow for research and data collection.
- **Technologies:** Python, Tkinter, pynput, pystray, pyperclip, JSON.

 [Full Demo Video](#) (First release, with narration)

### Intelligent PDF Converter (OCR + Pandoc) (Available on [GitHub](#))

- Engineered a high-performance desktop application that converts scanned, image-based PDFs into fully reformatted, text-searchable documents.
- Utilizes Tesseract OCR and Python's multi-processing for parallel execution, drastically speeding up text extraction from large files.
- Applies regex-based heuristic algorithms to identify and structure content, then leverages the Pandoc engine to generate a clean, professionally formatted final PDF.
- **Technologies:** Python, CustomTkinter, Tesseract, PyMuPDF, Pandoc, Multiprocessing.

*A live demonstration of the proprietary projects can be provided during the interview process. [My full portfolio](#), detailing over 20 additional AI and automation projects, is available for presentation.*

## EXPERIENCE

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### SOMPO INSURANCE

**Istanbul, Turkey**

#### Junior Corporate Pricing and UW Analytics Executive

January 2023 – August 2024

- Analyzed insurance pricing data to develop more accurate and competitive ratemaking strategies.
- Created visual dashboards and automated reports for pricing and underwriting teams.
- Delivered data-driven recommendations to improve profitability and performance.

### SOMPO INSURANCE

**Istanbul, Turkey**

#### Assistant Sales Manager

September 2022 – December 2022

- Supported senior sales managers in developing sales initiatives and outreach strategies.
- Conducted analysis on sales data to optimize performance and planning.

**CODEWAY STUDIOS****Content Writer****Istanbul, Turkey**

August 2022 - September 2022

- Wrote 60+ content for a soon to be released mobile application named “Couples” which is a fun question game app that targets couples in the USA.
- Conducted web and academic research to support content development and app positioning.

**EDUCATION**

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**YEDITEPE UNIVERSITY****Master's Program in Cognitive Sciences****Istanbul, Turkey**

2022 - Present

**BOGAZICI UNIVERSITY****Bachelor of Arts in Sociology****Istanbul, Turkey**

2017 - 2022

GPA:3.45

(Ranked 6<sup>th</sup> in the department)**KIRKLARELI SCIENCE HIGH SCHOOL****High School Diploma****Kırklareli, Turkey**

2013 - 2017

**Language**

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- **Turkish** – Native
- **English** – Advanced (C1, IELTS Certified)

**Interests**

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- **Academic:** Psychology, Sociology, Philosophy
- **Tech:** AI Trends, Experimental Programming
- **Hobbies:** Badminton, Chess, Foosball