



Çetin Tiryaki

Computer Engineering Student · Full-Stack / Test Automation

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SUMMARY

Computer Engineering student specialising in full-stack development and test automation (Java, Selenium, Cucumber, JUnit, Maven). Build responsive web UIs (HTML/CSS/JS/React/Bootstrap) and REST backends (Node.js, Django) with SQL/NoSQL databases. Prototype networking systems (reliable UDP with SEQ/ACK & flow control, encrypted P2P chat) and run MATLAB/Monte Carlo simulations; also explore generative art using Perlin noise. Strong CS foundations (Algorithms & Data Structures, OOP, x86-64).

EXPERIENCE

Test Automation Developer (Intern) — Trendyol / Project

2025 · Java, Selenium, Cucumber, WebDriverManager, JUnit, Maven

- Implemented end-to-end automation flows for registration, login, and product scenarios.
- Built reusable step definitions and page-object structures to reduce duplication.
- Optimized reporting and parallel execution for CI pipelines.

Academic & Personal Projects

2024–2025 · Python, Java, C, Shell

- Created *Progi* — a weekly planner & goals tracker with Python/CustomTkinter.
- Prototyped UDP-based message/file transfer with flow control (Python).
- Built stack/tokenizer components in Assembly and C for coursework.

EDUCATION

Boğaziçi University — BSc in Computer Engineering

2021 – present

- Relevant coursework: Systems Programming, Data Structures, OOP, Computer Networks.
- GPA / achievements (optional).

Erzurum İbrahim Hakkı Science High School

Graduated: 2021

SKILLS

Programming Languages

- Java
- Python
- JavaScript
- C
- C++
- Bash

Frontend

- HTML
- CSS
- React
- Bootstrap

Backend & APIs

- Node.js
- Django
- REST APIs

Databases

- PostgreSQL
- MongoDB
- MySQL

AI / ML

- Machine Learning
- Neural Networks
- TensorFlow
- PyTorch
- NLP

Networking

- TCP/IP
- UDP
- HTTP
- Socket (Python)
- Socket (C)
- Protocol Design

Security

- SSL/TLS (basics)
- Cryptography
- OWASP Top 10
- XSS
- SQL Injection
- Linux Security
- Pentesting (basics)

Testing & QA

- Selenium
- Cucumber (BDD)
- JUnit
- Maven
- E2E Testing



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PROJECTS

Describe&Draw — Text-to-Sketch AI (demo)

Python, PyTorch/TensorFlow · 2025

- Generates simple 2D drawings from natural-language prompts via lightweight CNN/Transformer blocks.
- Built a minimal dataset and training loop; exported an interactive web demo.

Progy — Personal Planner (Web)

HTML, CSS, JavaScript, Bootstrap · 2025

- Responsive weekly planner & goals dashboard; deployed on *cetintiryaki.com*.
- Componentized UI and localStorage-backed persistence.

Portfolio Sites

Full-Stack · 2025

- *cetintiryaki.com* and *aysetiryaki.com* with SEO, responsive layouts, and CI deployment.
- Reusable card/carousel components and analytics hooks.

Reliable UDP File Transfer

Python, Sockets · 2024

- Implemented TCP-like flow control (SEQ/ACK, RWND, retransmission) over UDP for files/messages.
- Measured throughput/latency under packet loss; wrote protocol spec and test harness.

CERTIFICATIONS

- Udemy — Selenium 4 + Cucumber (2025)
- Angela Yu — Full-Stack Web Development (ongoing)

LINKS

- GitHub
- Portfolio



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PROJECTS (CONT.)

Encrypted Chat with Dynamic Key Rotation

Python, Cryptography · 2024

- Peer-to-peer messaging with per-message key derivation and periodic re-keying for forward secrecy.
- Custom handshake + symmetric encryption; hobby-grade threat model.

MATLAB Monte Carlo Simulations

MATLAB · 2024–2025

- Buffon's needle, random walk/diffusion, and Perlin-noise-driven asteroid motion.
- Parameter sweeps with visualization; reproducible scripts/reports.

Generative Art Series

Processing / Python / MATLAB · 2024–2025

- *Fireflies in the Dark*, *Time Table Visualization*, *The Blood* using Perlin noise & diffusion.
- Real-time rendering and exportable frames; exhibited on campus.

Web Test Automation Suites

Java, Selenium, Cucumber, JUnit, Maven · 2025

- E2E flows for Hepsiburada & Trendyol: register, login, product browse, cart, and reporting.
- Page Object + reusable steps; parallel runs and CI integration.

WitcherTracker — Text-Based Game

C, Makefile · 2025

- Modular inventory with parser/writer/processing; unit-tested stack operations.

ADDITIONAL

- YKS (Turkish university entrance) national rank: 285th.
- Train 3–4× per week; disciplined, detail-oriented, team-player.