

ILGAZ MEHMETOĞLU

Software Developer | Computer Science Student | Bioinformatics

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PROFILE

Third-year Computer Science student at Maastricht University and software developer building scientific, desktop, and developer-focused tools. Interested in reproducible bioinformatics workflows, careful validation, clear data provenance, and software that makes complex systems understandable.

EDUCATION

Maastricht University | Maastricht, Netherlands

BSc Computer Science, Year 3

SELECTED PROJECTS

Haplux | Pre-alpha bioinformatics research software

- Tests whether a genomic model's predicted effect for the same focal variant remains stable across different human haplotype backgrounds.
- Reconstructs phased haplotypes from indexed FASTA and VCF/BCF data, builds matched REF/ALT experiments, and preserves sequence provenance.

Python 3.9+, pysam/HTSlib, Textual, JSON, FASTA, VCF/BCF

Java Vector Nexus | Cross-platform engine and creative tooling

- Modular visual novel engine and 2D animation toolkit with a runtime, editor, scripting formats, and build tooling.

Java 21, JavaFX, Gradle, Clojure, Scala

Simjot | Local-first desktop application

- Personal writing and creative-wellness studio with journaling, mood tracking, poetry analysis, encrypted backups, and an Aero-inspired interface.

Java 24, Swing, C/C++, Objective-C, Haskell, local-first storage

TECHNICAL SKILLS

Programming	Python, Java, C/C++, Objective-C, C#, JavaScript/TypeScript, Haskell, Clojure, Scala
Scientific software	pysam/HTSlib, FASTA, VCF/BCF, haplotype reconstruction, provenance-aware workflows
Applications	JavaFX, Swing, .NET, React, Electron, SwiftUI, AppKit
Engineering	Automated and integration testing, modular architecture, native interop, cross-platform packaging

LANGUAGES

Turkish: Native English: Fluent Dutch: B2