

# Raul Malik

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## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, SQL, HTML, CSS, Swift

**Frameworks:** Spring-boot, Flask/FastAPI, Framer, SwiftUI, WidgetKit

**Development Tools:** Git, IntelliJ, PyCharm, Maven, PostgreSQL, Docker, Excel, Power BI (basic)

## PROFESSIONAL EXPERIENCE

### Front-End Developer (Freelance)

August 2022 – October 2022

*HurryUpFood*

*Albertslund, DK*

- Designed and implemented a responsive meal-ordering interface with dynamic cuisine filters (Italian, Indian, Desserts), reducing user search time by 35% and increasing click-through rate by 22%.
- Developed reusable UI templates and component libraries to standardize styling and behavior, accelerating development speed by 28% and reducing QA rework by 18%.
- Integrated advanced client-side filtering for personalized meal recommendations, boosting user engagement by 40% and extending average session time by 25%.
- Stack: Python, HTML5, CSS3, JS, Figma

## SELECTED PROJECTS

### Crypto Portfolio Tracker | *Python (Flask/FastAPI), Framer, REST, CoinGecko API*

June–August 2025

- Built a full-stack solution for cryptocurrency portfolio tracking with Framer as frontend and a Python-based backend API.
- Developed endpoints for both manual input (`/portfolio/by-tokens`) and automatic wallet lookup (`/portfolio/by-address`), enabling retrieval of balances via blockchain APIs.
- Implemented integration with price feeds (CoinGecko) providing real-time calculation of total value, 24h change (absolute + %), and token-wise tables with symbol, amount, price, and value.
- Added price caching (60 sec.) to reduce API calls and implemented robust error handling with deterministic JSON responses (400/429/503), ensuring stability under rate limits.
- Wrote unit tests for parsing, validation, and total calculation, covering edge cases (e.g., mismatched tokens vs. amounts) and ensuring correct JSON output.
- Extended the project with historical snapshots and a simple line graph of portfolio value over time, with planned improvements (multi-currency, alerts, user authentication).

### Heat Consumption Data Analysis | *Python (pandas, matplotlib, statsmodels)*

April 2025

- Cleaned and transformed energy consumption data for multiple households during the winter period 2009–2010, including handling missing values and filtering relevant cases.
- Performed descriptive analysis with scatterplots, histograms, and boxplots to uncover relationships between heat consumption, outdoor temperature, and solar radiation.
- Built and validated multiple linear regression models, conducted hypothesis tests for coefficients, and applied model reduction via backward selection.
- Visualized residuals, prediction intervals, and QQ-plots, making results easy to communicate and providing insights into energy consumption patterns.

## EDUCATION

### Technical University of Denmark - DTU

September 2024 – June 2026

*Bachelor of Engineering (BEng Software Technology)*

*Lyngby, DK*