Curriculum Vitae

Alfarizy
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Summary

Aspiring Software Engineer with experience in full-stack development, system troubleshooting, and data analysis. Proficient in C, Python, Java, React TypeScript, and SQL, with expertise in RESTful APIs, automation, and cloud computing (AWS, Docker, Kubernetes). Passionate about solving complex problems and optimizing system performance in collaborative environments.

Education

Eötvös Loránd University   **Feb 2022 – Jun 2025 (Expected)**
Bachelor of Science in Computer Science   **Budapest, Hungary**
GPA: 4.74/5.00

- **Activities:** Google Developer Group ELTE Technical Lead, International Student Ambassador, International Student Advisory Committee Representative, SH and ESN Student Mentor.
- **Relevant Coursework:** Linux/Bash, Cloud Computing (Docker, Kubernetes, AWS), Cryptography, Go Language, SQL, ML/AI, DSA, Web Security, Programming Paradigm, Advanced Web Programming
- **Summer School:** University of Maastricht 2024 **(GPA: 10/10)**, University of Utrecht 2025 **(GPA: 10/10)**

Working Experience

Student Researcher   **Dec 2024 - present**
Eötvös Loránd University – Modelling Lab   **Budapest, Hungary**

- Conducting advanced research on Explainable AI methodologies focused on generating post text-based explanations for ECG model outputs using LLMs while maintaining its medical interpretation accuracy.
- Integrating pre-trained Variable Projection Network (VPNet) models to analyze and elucidate relationships between inputs and outputs, enhancing model transparency and interpretability.

AI Trainer   **Nov 2024 – present**
Outlier   **San Francisco, USA**

- Training large language models (LLMs) to address failure scenarios by designing and providing technical and coding prompts, mainly in Python, Java, and SQL.
- Evaluating AI-generated code outputs, identifying errors, and providing accurate, executable solutions to ensure task completion while enhancing code efficiency, reliability, and scalability across various use cases.
- Developing and debugging comprehensive test cases to ensure the generated code functions correctly, performs optimally, and handles all edge cases, guaranteeing 100% reliability.

Junior Software Developer   **Jun 2024 – Oct 2024**
Qneiform   **Budapest, Hungary**

- Developed an automated scraping tool with Python, Flask, and Beautiful Soup, enhancing market research efficiency.
- Developed and deployed full-stack dashboards (React TSX and Flask) to provide real-time insights on hiring costs, competitor analysis, and database performance.
- Improved internal operational efficiency by extending the Slack bot for desk booking and streamlining resource management.
- Conducted data analysis using Python, delivering actionable insights for strategic HR and business decisions.
- Hands-on experience on AWS (S3, DynamoDB, GraphQL) and RESTful API design.
- Built a desktop app with Flask for automated data validation and correction, utilizing regex patterns and data-matching algorithms, significantly improving database consistency and reducing manual intervention.

Data Scientist Intern   **Oct 2023 – Jun 2024**
The Estée Lauder Companies Inc.   **Budapest, Hungary**

- Developed and optimized SQL queries for data extraction on the OBIEE platform.
- Conducted data preprocessing and exploration using Python, facilitating data visualization in Power BI.
- Performed mass data uploads for salary, bonuses, and other HR-related data, ensuring 100% accuracy and consistency across payroll systems.

- Analyzed employee data and salary reports from 10+ countries using VBA and Excel formulas to identify and report discrepancies between legacy and new databases during a global payroll migration project, ensuring 100% data accuracy and compliance.
- Resolved tickets related to employee data issues, troubleshooting and correcting discrepancies to maintain data integrity and compliance.
- Automated data management tasks using Oracle PUI and UI Path, streamlining HR and payroll operations.

Web Development Intern   **Oct 2023 – Feb 2024**
Lime Light Renhold   **Oslo, Norway**

- Developed frontend solutions using React TypeScript, Tailwind CSS, and prototyped with Figma.
- Managed the complete SDLC for web features, from conceptualization through deployment, using Git for version control and Jenkins for CI/CD.
- Integrated OAuth 2.0 with Firebase for user authentication and authorization.
- Built and developed the database using MongoDB and MySQL.
- Conducted code reviews and testing with Jest and React Testing Library.

Projects

Income Classification Using Machine Learning   **Oct 2024**
Link to the project: https://github.com/helloimrizy-pages/Income-Classification-Project

- Engineered features, handled class imbalance with SMOTE, and built optimized machine learning models (XGBoost, Random Forest, SVM), achieving 86.58% accuracy while ensuring interpretability with LIME and performance evaluation using precision, recall, and AUC-ROC.

Interactive City Exploration Game with Location-Based Riddles   **Dec 2024**
Link to the project: https://github.com/helloimrizy-pages/Budapest-City-Escape

- Developed an interactive city exploration game using React (TypeScript), TailwindCSS, OpenStreetMap, and QGIS, integrating a location-based riddle-solving experience with dynamic maps, real-time passcode validation, and historical storytelling, enhancing user engagement through an immersive gamified adventure.

Skills

Programming: Python, Bash, SQL, Java, C#, C++, C, TypeScript, JavaScript
DevOps Tools: Docker, Kubernetes, Jenkins, Terraform, Helm, Git, GitHub
Frameworks: Flask, React, TailwindCSS, Material UI
Databases: MySQL, MongoDB
Cloud Platforms: AWS (S3, DynamoDB, GraphQL), Firebase/Firestore
Methodologies: Agile (Scrum/Kanban), Software Design Patterns, Best Practices
Other Skills: RESTful API Design, Linux Environments, Networking Concepts, kpt (familiarity), Explainable AI, LLMs

Certificates

LinkedIn Learning: Docker, Kubernetes, Jira, Jenkins, Git, APIs and Web Services, Agile Software Development
Udemy: DevOps Beginner to Advanced, Kubernetes with Helm, Network & Socket Programming
Cisco Networking Academy: IoT Fundamentals: Big Data & Analytics

Awards

- 4th Place – JunctionX Budapest Hackathon 2024 (Sustainable Challenge)
  Developed a real-time object detection mobile app for identifying types of recycling.
- Stipendium Hungaricum Scholarship Recipient.
- Indonesian Ministry of Research and Technology Scholarship Recipient

Reference/Recommendations

- Dóra Takács - Acting Business Transformation Senior Analyst. A former manager at The Estée Lauder Companies Inc. (dtakacs@hu.estee.com)