

## MATTI KIVIHARJU

AI Engineer and Teacher, Expert Full-Stack Developer and Software Architect

*I help build the future of AI.*



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### Contact Information:

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### Professional Experience:

#### Outlier

##### *AI Engineer and Teacher 2024 – Present*

- My responsibilities include working with Large Language Model (LLM) technologies, meaning I train various AI models (such as ChatGPT by OpenAI, Google, Copilot, etc.) to provide better responses to their users. The work isn't solely about teaching AI to programming better; it also involves other tasks. I work 100% remotely, and my employer is based in San Francisco, USA.

#### i4ware Software

##### *Entrepreneur and Founder 2004 – Present*

- Leveraged 20 years of entrepreneurial experience as a private trader, demonstrating CEO-level leadership, managing a team of subcontractors.
- Successfully collaborated with top-tier Fortune 100 companies, including Red Hat, Inc., and Canonical Ltd.

#### Certitude Ltd

##### *Software Developer & System Administrator 2014 – 2015*

- Led ERP software development projects, enhancing business operations and streamlining processes.
- Managed server administration using Ubuntu Server, ensuring optimal performance and uptime.
- Administered MySQL databases, optimizing queries and maintaining data integrity.

### **MML-Group**

*Software Developer & System Administrator 2013 – 2014*

- Developed ERP software solutions, contributing to improved resource planning and management.
- Conducted server administration with Ubuntu Server, ensuring robust and secure server environments.
- Managed MySQL database systems, implementing effective data management strategies.
- Designed and developed web interfaces, improving user experience and accessibility.

### **Notable Project**

- Successfully delivered a fully functional ERP system for an employee rental firm: [ERP System for Employee Rental Firm](#)

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### **Skills:**

- **Technologies:** Python, Java EE, Spring Boot, Ubuntu Server, Red Hat Enterprise Linux, MySQL, PostgreSQL, PHP, Laravel, React, TypeScript, CSS, HTML, XML, AJAX, REST, RESTful, JSON, JSONP, JavaScript, Node.js, Firebase (NoSQL database), Firebase (PHP Framework for JSON Web Token), React Native, C#, Python
- **Languages:** Native in Finnish and Conversational in English (US, UK, and AU English)

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### **International Collaboration:**

- Demonstrated success in working seamlessly with Australian, United Kingdom, and United States customers and partners.
- Proven ability to navigate and understand linguistic and cultural differences, fostering productive relationships.

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### **Education:**

**Tampere University of Applied Sciences**

*2007 – 2014*

- Bachelor's degree in business and information technology

**Ikaalinen Business College**

*2003 – 2006*

- Vocational Qualification in Business Information Technology (BIT)

**Courses/Qualifications:**

**Tampere University**

*2024 – 2024*

- **University Community Data Security**

**Tampere University**

*2024 –*

- **Cyber Security**

**LUT University**

*2024 –*

- **Advanced Web Applications**

**Tampere Adult Education Centre**

*2020 – 2020*

- **B-to-B Sales Person**

**Red Hat University**

*2009 – 2009*

- **Certified Red Hat Virtualisation Salesperson**

**Red Hat University**

*2009 – 2009*

- **Certified Red Hat Enterprise Linux Salesperson**

**Red Hat University**

*2009 – 2009*

- **Certified Red Hat Enterprise Linux Salesperson**

**University of Tampere**

*2000 – 2000*

- **Hypermedia and Web-publishing**
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## App Development and Sales Expertise:

- Spearheaded the development and distribution of self-created apps in the Atlassian Marketplace since 2012.
  - Streamlined app installation through cloud-based deployment or fully functional cloud-based applications.
  - Ensured app security in compliance with Atlassian Pty Ltd's stringent requirements.
  - Configured SSL certificates with A to A+ security ratings.
  - Configured Postfix/Courier/ClamAV/SpamAssassin for AI-based anti-spam in Ubuntu Server 20.04 LTS with MySQL/PostgreSQL databases.
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## Software Security Expertise:

- Extensive knowledge in software security, proficiently identifying and addressing vulnerabilities, including SQL injection and code inclusion.

## Technical Proficiency:

- Proficient in working with Amazon Web Services (AWS), optimizing server usage to manage expenses effectively.
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## Key Achievements:

- Played a pivotal role in planning the UML/ERD modelling tool for Siemens Polarion ALM software in 2010-2011.
  - [Official proof of involvement](#)
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## Projects and Work Samples:

1. **i4ware ChatGPT OpenAI Chat with Dark Theme**
  - Made new look and feel for Atlassian Confluence.
  - Technologies: CSS, jQuery, JavaScript, Java EE, Velocity, Confluence Java API, Jenkins, React
  - More details: [Marketplace link](#)
2. **Infinite Scrolling Photobrowser App**
  - Developed a React App using JSONPlaceholder sample database.
  - Public demo: [Infinite Scrolling Photobrowser](#)
  - [Source Code](#)
3. **Photobrowser App**
  - Created a React App using JSONPlaceholder sample database.
  - Public demo: [Photobrowser](#)
  - [Source Code](#)
4. **3D Model Viewer**

- Created with ReactJS and THREE libraries to view 3D Models in STL file format.
  - Public demo: [3D Model Viewer](#)
  - [Source Code](#)
  - 5. **Users and Their Details App**
    - Developed an app using React and JSONPlaceholder public sample database.
    - Public demo: [Integrify Pre-Task App](#)
    - [Source Code](#)
  - 6. **i4ware - SDK**
    - Contributed to a MIT licensed SDK for customized ERP systems and software development.
    - Technologies: React, React Bootstrap, MySQL, PostgreSQL, Laravel, PHP
    - Public demo: [SaaS Demo](#)
    - [Source Code](#)
  - 7. **i4ware AI Assistant Real-Time Chat**
    - Powered by ChatGPT-4, built with Laravel 9 and React 18.
    - Admin panel demo: [i4ware AI Assistant Real-Time Chat Admin](#)
    - Public AI chat demo without login: [i4ware AI Chat](#)
    - [Source Code](#)
  - 8. **Automated AI Email Response Software**
    - ChatGPT 4o-mini OpenAI based email responses for companies who try to sell you some services gets “Thanks but no thanks!” message and AI can automatically reply to those who asking services from email receiver with quote “Yes, we can do it. Can you give more details?”. Technology stack is Python, Courier, Postfix, Ubuntu Server 20.04 LTS, MySQL, SpamAssassin, Abusix, DNS, IMAP, and ChatGPT 4o-mini OpenAI.
  - 9. Source Code: [https://github.com/foghorn-hash/openai\\_email\\_responder](https://github.com/foghorn-hash/openai_email_responder)
  - 10. **Requirements Diagramming**
    - Contributed to ER/UML diagramming tool for Polarion ALM.
    - Technologies: Gliffy REST API, Polarion SDK, JSP, Java EE, Java Servlet, Ext JS, REST
    - [Information](#) and [blog post](#)
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### Availability:

- Not mostly available but if I have time then I can take freelancer job at €95/hour (0% VAT).