Aaron Richard
Senior Web & AI Developer

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SUMMARY

Accomplished and passionate **Web & AI Developer** with over a decade of hands-on experience in building scalable web applications and implementing intelligent automation systems using Python. Known for writing clean, modular code and driving technical innovation in fast-paced environments. Expertise spans a wide stack including **React.js**, **Node.js**, **MongoDB**, **MySQL**, and **PHP** on the web side, and Python-based machine learning, **NLP**, and automation frameworks. Proven success in delivering critical projects across healthcare, financial, **ERP**, and logistics domains. Adept in **Agile**, test-driven development, **cloud architecture**, and mentoring teams in modern development practices.

PROFESSIONAL EXPERIENCE

Senior Web Developer | Grabit / zerodays, Ljubljana, Slovenia | Jun 2023 - Oct 2024

- Spearheaded the design and development of a multi-tenant **SaaS** platform for healthcare appointment scheduling and billing systems, built on the **MERN** stack (**MongoDB**, **Express.js, React.js, Node.js**). - Led implementation of serverless back-end architecture using **AWS Lambda** and **API Gateway**, reducing infrastructure overhead by 40%.
- Built interactive dashboards with **Chart.js** and **React** for visualizing medical trends and patient data.
- Engineered microservices using **Node.js** and **Docker**, connected via **RabbitMQ** for asynchronous task handling.
- Developed admin management tools including **role-based access** control, **JWT authentication**, and secure file storage using **AWS S3**.
- Conducted accessibility audits and refactored front-end to **WCAG 2.1** standards using semantic **HTML** and **ARIA** attributes.
- Created automated testing pipelines using **Jest** and **Cypress**; achieved 95% code coverage across major components.
- **Co-led architecture** planning sessions with **CTO**; contributed to system migration strategy from monolith to microservices.

AI Developer | LeanIX SI, Ljubljana, Slovenia | Feb 2017 - Apr 2022

- Designed **Python-based machine** learning systems to categorize and rank business architecture elements, using clustering and classification algorithms (**Random Forest**, **SVM, K-Means**).
- Integrated **NLP** libraries (**SpaCy**, **NLTK**) into the enterprise search module, improving semantic search relevance by 30%.
- Developed data extraction tools for **PDFs**, emails, and spreadsheets using **OCR** and text-mining pipelines (**Tesseract**, **Pandas**).
- Built custom recommendation engine for architectural best practices based on metadata and user behavior. Deployed AI models into production via Docker containers on **Kubernetes clusters** managed with Helm charts.
- Created RESTful API endpoints using Flask to serve predictions for frontend integration.
- Used Apache **Airflow** for scheduling and monitoring **ETL** workflows that ingested structured and unstructured data.

- Collaborated with **DevOps** team to monitor model drift and update retraining pipelines automatically.
  - Presented research findings to internal stakeholders and contributed to 2 white papers on enterprise **AI adoption**.

Junior Web Developer | Kontron / Sportradar, Ljubljana, Slovenia | Sep 2014 - Oct 2016

- Developed responsive **UI** components for live match-tracking platforms using **jQuery**, **Bootstrap**, and vanilla **JavaScript**.
- Integrated sports data **APIs** (Sportradar Core Feed, Opta) into dashboards and widgets displayed in
- real-time.
- Collaborated with backend team to implement efficient data caching strategies using **Redis** and **Memcached**.
- Converted existing **PHP** monoliths into modular Laravel-based apps, improving maintainability and performance.
- Wrote cron jobs for regular data sync from **FTP** and **RESTful** endpoints into **MySQL** databases.
- Built internal tools for **QA automation** using Selenium WebDriver and **PHP** scripts.
- Handled legacy code refactoring, bug-fixing, and cross-browser compatibility for client-facing portals.
- Learned **Git**, **CI** with **Jenkins**, and **Agile** methodology through mentorship and participation in daily scrums.

PROJECT HIGHLIGHTS

- **Medical AI Diagnostics Assistant**: Developed an **AI-powered** tool using Python and TensorFlow to analyze medical images and classify potential anomalies. Achieved 89% precision in a pilot run with synthetic datasets.
- Invoice **Auto-Categorization** System: Designed a Python-based solution for automating invoice classification with **OCR** and **ML**. Saved 30+ hours/month of manual labor for a financial client.
- **Real-Time Sports Feed Interface**: Created **React.js** interface for live scoreboards, integrating **WebSockets** and a real-time event-driven backend. Reduced latency by 45% and increased user engagement.
- **ERP Role Management** Suite: Led the backend development of an administrative user role suite with granular permission trees, integrated with **OAuth2** and **Active Directory**.

EDUCATION

Bachelor of Science in Computer Science
University of Ljubljana, Slovenia
Graduated: 2014

SKILLS

- **Languages**: HTML5, CSS3, JavaScript (ES6+), PHP, Python, SQL, Bash
- **Frontend:** React.js, Redux, Next.js, jQuery, Tailwind CSS, Material UI, Bootstrap
- **Backend:** Node.js, Express.js, Laravel, Flask, Django, REST APIs
- **Databases:** MongoDB, MySQL, PostgreSQL, Redis
- **AI/ML/NLP:** Scikit-learn, TensorFlow, PyTorch (basic), Pandas, Numpy, SpaCy, OpenCV, Tesseract
- **Cloud & DevOps:** AWS(S3, EC2), Firebase, DigitalOcean, Docker, Kubernetes, GitHub Actions, Jenkins
- **Tools:** Git, Webpack, Postman, Figma, VS Code, Jira, Selenium
- **Practices:** Agile/Scrum, CI/CD, Microservices, TDD, RESTful design, JWT/Auth0, OAuth 2.0, MVC