

Jacob Maschler

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Professional Summary

Driven software developer passionate about building scalable applications and solving complex technical challenges. I combine strong full-stack expertise with a detail-oriented approach to deliver high-quality solutions that make a real impact.

Experience

Oceanskies | PHP Software Developer

Nov 2024 - Present

- Developed full-stack web applications using PHP Laravel, JavaScript, and custom frameworks
- Implemented and redesigned backend APIs, security features, and frontend-backend architecture
- Managed containerization with Docker and cloud infrastructure using AWS (S3, management)
- Collaborated with customers on project scoping, requirements, and represented the company as the primary app developer
- Handled staff management systems and billing solutions

Citel | Full Stack Developer – Placement Year

Jul 2022 – Jul 2023

- Worked as a full-stack developer focusing on enhancing web performance, improving security, and upgrading the codebase framework
- Created automated tests using Selenium and enhanced the billing process
- Collaborated with clients and teams on new features and testing
- Strengthened skills in coding, debugging, problem-solving, and Agile development

Active Speaker Detection | Final Year Project – 81%

Jun 2024

- Built an AI system that identifies who is speaking in videos with multiple people using both visual and audio analysis
- Engineered a three-stage pipeline that processes face detection, audio patterns, and spatial relationships
- Achieved 94.4% accuracy, beating all comparable open-source systems
- Handled full project pipeline: data preparation, testing variations, and performance optimization
- Technologies: PyTorch, Python, Docker

Loughborough University

First Class Honours

BSc Computer Science with AI
Jun 2024

Key Modules:

Advanced AI Systems - 90%
AI Project - 81%
Embedded Systems - 86%
Mobile App Development - 81%

A Levels

Sep 2017 – Jul 2019
Physics - A • Maths - B
BTEC IT - D*

Skills

Technical Skills

Security • Architecture
CI/CD & DevOps • Testing
Databases • Machine Learning

Tools & Frameworks

Laravel • React • Docker
AWS • Bitbucket • AngularJS
Jira • Selenium • Django
PyTorch • SQL • Bootstrap

Programming Languages

Advanced: Python • JavaScript • PHP
Intermediate: TypeScript • Java C • C++ • SQL
Beginner: Rust

Certifications

Browser Automation with Selenium
Angular JS JumpStart

Core Qualities

Honesty • Reliability • Conscientiousness