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

- Built custom full-stack frameworks from scratch with no ORM or pre-built backend/frontend frameworks
- Integrated Laravel and React in projects where their frameworks accelerated development
- Hardened security-vulnerable systems with comprehensive security implementation
- Managed Docker containerization and AWS infrastructure (S3, Lambda, RDS, Bastion servers)
- Became primary developer and took over client liaison duties for the app used by over 5000 crew
- Delivered CRM systems, payroll processing, crew management platforms with compliance tracking, and invoicing systems

Citel | Full Stack Developer - Placement Year
Jul 2022 - Jul 2023

- Worked as a full-stack developer focusing on enhancing web performance and improving security
- Created automated tests using Selenium and enhanced the billing process
- Collaborated with clients and teams on new features and testing
- Upgraded Django 1.x and Python 2.7 to modern versions across thousands of changes — fully tested, documented, with zero major incidents, significantly improving security and developer productivity

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
Advanced AI Systems - 90%
AI Project - 81%
Embedded Systems - 86%
Mobile App Development - 81%
Advanced Networking - 79%
Robotics - 79%

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 Competencies

Legacy System Modernization
Security-Focused Development
Full-Stack Architecture
Production Infrastructure (AWS/Docker)