

Jacob Maschler

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Experience

Oceanskies | PHP Software Developer

Nov 2024 - Present

- Built custom full stack frameworks from scratch with no ORM or prebuilt 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

Active Speaker Detection | Final Year Project - 81%

Jun 2024

- Built PyTorch AI system identifying speakers in multi person videos using visual and audio analysis; engineered three stage pipeline for face detection, audio patterns, and spatial relationships
- Achieved 94.4% accuracy, outperforming all comparable open source systems
- Managed full project pipeline: data preparation, testing variations, and optimization

Citel | Full Stack Developer - Placement Year

Jul 2022 - Jul 2023

- Enhanced web performance and security by creating an automatic test suite using Selenium and improved billing processes
- Collaborated with clients to scope requirements, design solutions, and deliver custom features
- Upgraded Django 1.x and Python 2.7 to modern versions across thousands of changes with full testing and documentation, with no major incidents

Loughborough Windsurfing | Event Manager

Sep 2023 - Jun 2024

- Managed 100+ person university event with logistics, sponsorships, and operations

The Compasses Inn | Barman | Waiter | Kitchen Assistant

Aug 2018 - Aug 2024

- Developed strong communication and teamwork skills through coordinating between front of house and kitchen staff

Loughborough University

First Class Honours

BSc Computer Science with AI
Sep 2020 - 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 - Dist *

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
Proficient: TypeScript • Java C • C++ • SQL
Familiar: Rust

Certifications

Browser Automation with Selenium
Angular JS JumpStart

Core Competencies

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