

# 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%

Sep 2023 - 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 w 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)