

# 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 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)