

# Jacob Maschler

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## EXPERIENCE

### OCEANSKIES | PHP SOFTWARE DEVELOPER

Current

- Developed full-stack web applications using PHP Laravel, JavaScript, and custom frameworks for projects including Sunlounger and Yacht Payroll
- 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 lead developer
- Handled staff management systems and web app development across multiple concurrent projects

### 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

### AUDIO-VISUAL ACTIVE SPEAKER DETECTION | FINAL YEAR

PROJECT - 81%

Jun 2024

- Developed VoxID, a hybrid machine learning pipeline for detecting active speakers in multi-speaker environments using audio-visual data
- Architected three-stage system: 2D ResNet-18 with Temporal Shift Module, Bi-directional LSTMs for temporal modeling, and Graph Neural Networks for spatial-temporal reasoning
- Achieved 94.4% mAP on AVA-ActiveSpeaker benchmark, outperforming all open-source baselines
- Implemented end-to-end pipeline with data preprocessing, augmentation, and Bayesian hyperparameter optimization
- Technologies: PyTorch, Python, Docker, AWS

## LOUGHBOROUGH

## UNIVERSITY

### FIRST CLASS HONOURS | JUN 2024

BSC COMPUTER SCIENCE WITH AI

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

Agile Development • Problem Solving • Data Analytics • ERP Systems Implementation

### TOOLS & FRAMEWORKS

Laravel • Docker • AWS • S3 • Bitbucket • AngularJS • Jira • Selenium • Django • SQL • Bootstrap • PyTorch

### PROGRAMMING LANGUAGES

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

Beginner: Rust

### CERTIFICATIONS

Browser Automation with Selenium

Angular JS JumpStart

Sailing/Windsurf SWA Instructor

### CORE QUALITIES

Honesty • Reliability • Conscientiousness