Jacob Maschler

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Experience

Oceanskies (Fintech) | PHP Software Developer
Nov 2024 - Present
- Designed banking API integration handling thousands of monthly payments and millions in volume
- Became primary developer and liaison for an app serving 8000 crew members
- Built data import/interop systems enabling integration with partner company platforms
- Modernised legacy codebase: fixed XSS vulnerabilities, permission bypass attacks, and SQL injection
- Managed Docker containerization and AWS infrastructure (S3, Lambda, RDS, Bastion servers)
- Developed payroll, crew management, CRM, compliance and invoicing systems using custom PHP frameworks

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, model training, testing, and optimization through hyperparameter tuning and ensemble methods

Citel | Full Stack Developer - Placement Year
Jul 2022 - Jul 2023
- Implemented automated end-to-end test suite with performance benchmarking in CI/CD pipeline, achieving 65% test coverage
- Automated monthly billing workflow reducing manual processing from 8 hours to 1 hour, detecting discrepancies through automated reporting and alerts
- 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
- Organized a 100+ person university event, coordinating logistics and securing sponsorships

The Compasses Inn | Barman | Waiter | Kitchen Assistant
Aug 2018 - Aug 2024
- Coordinated kitchen and service staff, developing communication skills and understanding the importance of consistent customer service

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

REST API Design
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 Modernisation
Security Focused Development
Full Stack Architecture
Production Infrastructure (AWS/Docker)