# Alexander **Ottenhoff**

SENIOR SOFTWARE ENGINEER · TEAM LEAD · FULLSTACK DEVELOPER

Kew, Victoria, Australia

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## Summary

I'm a senior full stack software engineer with over 10 years of experience in building web and mobile applications. I have a strong background in computer science and electrical engineering, and have experience working in a variety of industries, including mining, biotech, and computer security. I have worked in both startups and large corporations, and have experience leading teams of developers and working closely with product teams to deliver high quality software products.

## Key Achievements

- Led a team of developers to build a mobile application for Zetifi devices
- Presented a talk at Paris.JS meetup #69 on frontend security for web applications
- Developed data visualisation dashboards for BHP, ENPICOM, and Sqreen
- Worked on the integration of AI services into Microsoft's Power Apps platform
- Co-founded two startups, Baselist and Sherlock. Sherlock won the French AFDEL award in the category "Digital Innovation" in 2016.
- Developed custom algorithms for generating user customisable 3D printable models of jewellery and mobile phone cases at LimeMakers

## Experience

### Lead Software Engineer (Mobile Applications)                Melbourne, Victoria, Australia

ZETIFI                                                                September 2023 - October 2024

- Led a team of developers to build a mobile application for Zetifi devices
- Designed encryption protocols for secure communication between Zetifi devices and the mobile application over bluetooth
- Worked closely with the product team to define the product roadmap
- Developed Serverless backend services in AWS to support the mobile application
- **Technologies**: React Native, Typescript, AWS Lambda, Python, FastAPI, AWS DynamoDB, AWS Timestream

### Senior Software Engineer (Fullstack)                          Perth, Western Australia, Australia

BHP                                                                  July 2021 - August 2023

- Developed a dashboard to visualise safety data across all of BHP's operations
- Worked with data engineers to build a data pipeline to support the dashboard
- Migrated the legacy dashboard from Javascript to Typescript, implemented a new UI design system, and modernised the codebase
- **Technologies**: React, Typescript, D3, C#, .NET Core, Snowflake, PostgreSQL, Docker

### Senior Software Engineer (Frontend)                          's-Hertogenbosch, Netherlands

ENPICOM                                                              March 2020 - June 2021

- Developed a web application to visualise and analyse immunogenomics data
- Worked with bioinformaticians to run scaled down versions of complex bioinformatics algorithms on subsets of the data in the browser
- **Technologies**: React, Typescript, D3, WebAssembly, Rust, Docker, Kubernetes, Python

### Cofounder / CTO                                              Paris, France

BASELIST                                                             June 2019 - December 2019

- Co-founded Baselist, a platform for finding real time price information on supermarket goods across France and optimizing shopping lists based on the user's location
- Pitched to Y Combinator, but was not accepted
- **Technologies**: React, Typescript, Node.JS, Express, PostgreSQL, Docker, AWS

### Senior Software Engineer (Backend)                          Paris, France

MICROSOFT                                                            September 2018 - March 2019

- Worked on the integration of AI services into Microsoft's Power Apps platform
- Developed demo applications to showcase the capabilities of the AI services
- **Technologies**: C#, .NET Core, Azure Cognitive Services, Power Apps

### Software Engineer (Frontend)
Paris, France

Sqreen
June 2016 - August 2018

- Developed a web application to visualise security data for Sqreen's customers
- Worked closely with the product team to define the product roadmap
- Implemented a new UI design system and modernised the codebase
- **Technologies**: React, Typescript, D3, Python, Flask, PostgreSQL

### Cofounder / CTO
Paris, France

Sherlock
November 2015 - July 2016

- Co-founded Sherlock, a platform for finding and making appointments with healthcare professionals while travelling
- Won the national AFDEL (now Numeum) award in the category "Digital Innovation" (jury: Dassault Systèmes & Microsoft) in 2016.

### Software Engineer (Backend)
Berlin, Germany

ZappChoice
February 2015 - December 2015

- Developed the backend of the TimeZapp mobile quiz application

### Software Engineer (Fullstack)
Berlin, Germany

LimeMakers
January 2014 - January 2015

- Developed custom algorithms for generating user customisable 3D printable models of jewellery and mobile phone cases

### Electronic Engineer (Control Systems + Automation)
Perth, Western Australia

FLSmidth
November 2007 - June 2013

- Designed operator user interfaces for robotic mineral sampling and cement plant control systems
- Helped commission FLSmidth products in Western Australia and New South Wales

## Skills

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|---|---|
| **Programming Languages** | **Typescript**, **Javascript**, **Python**, **C#**, Java, C++, Rust, Haskell |
| **Frameworks** | **React**, **Node.JS**, **Express**, **FastAPI**, Flask, .NET Core |
| **Tools** | **Docker**, **Kubernetes**, **D3**, Git, Jest, Postman, Unity |
| **Cloud Platforms** | **AWS**, Microsoft Azure, Google Cloud Platform |
| **Databases** | **PostgreSQL**, **SQLite**, MongoDB, AWS DynamoDB, AWS Timestream, MySQL, Snowflake |
| **Spoken Languages** | **English**, French |

## Education

### University of Western Australia
Perth, Western Australia, Australia

B.S. in Computer Science and B.E. in Electrical Engineering
2006 - 2012