

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 Sscreen
- 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, Node.JS

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, Node.JS, 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, Node.JS, D3, WebAssembly, Rust, Docker, Kubernetes, Python, Flask

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:** Typescript, React, Node.JS, 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, Node.JS

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

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