

Alexander Hoffmann

Looking for a software engineering position or freelance contract

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EDUCATION

- **ECE Paris** France
Master of Science in Computer Science 2016 – 2021
- **University of California San Diego** CA, USA
Extension program in Computer Science and Engineering 2018

EXPERIENCE

- **Full Stack Software Engineer** Paris, France
Freelance 2020 – Present
 - **Spotmydive** Write client-side code (GatsbyJS) for web-based high-volume production application (120,000 unique visitors/mo). Improve conversion rate and overall SEO by 20%.
 - **Machine Break** Produce front-end code to create a polished and highly functional user interface with a focus on usability and an accurate representation of the approved design mocks.
 - **Orange (contractor)** Design, create and maintain a scalable web-based dashboard application using TypeScript and MongoDB for back-end and ReactJS for front-end. Reduce customer acquisition cost by 5%.
 - **GEFCO** Design, develop, test, deploy, maintain and improve front-end (ReactJS) and back-end (C#) for highly available web application. Improve work performance and productivity by 10%.
- **Junior Software Developer** Düsseldorf, Germany
Sadnacaya GmbH & Co. KG 2018 – Present
 - Contribute to a wide variety of projects using natural language processing, artificial intelligence, data compression, machine learning and search technologies.
 - Configuration of a Manjaro VM onto a QNAP NAS to automatically back up mission-critical data on Write-Once-Read-Many archive storage.
 - Provide advanced corporate network infrastructure and server support.
- **Assistant professor of Computer Science** Paris, France
ECE Paris 2020
 - Teach and supervise two classes of 35 undergraduate students in C and C++.
- **Software Engineering Intern** Paris, France
Adaltas 2020
 - Research, conceive and develop software applications to extend and improve on Adaltas' product offering.
 - Contribute to DevOps processes and the requirements of producing and operating a machine learning model.
 - Collaborate on scalability issues involving access to data and information.
- **Software Developer Intern** Paris, France
Préfecture de police de Paris 2019
 - Development of a Java application to control backups and automatically notify system administrators.
 - Implement new features to local web applications to meet user demands and improve overall performance.
- **Assistant IT Administrator** Düsseldorf, Germany
Baum Reiter & Kollegen 2018
 - Participation in the creation and automation of complaints.
 - Assistance and advice of users on site.
 - Supervision of cloud platforms.
- **Software Tester** Düsseldorf, Germany
Ayacandas GmbH 2017 – 2018
 - Development of an exchange platform for hospitals and other medical institutions.
 - Quality control of the system to ensure that the software solution developed meets the requirements.
 - Analysis of the anomalies, documentation of the tests carried out and progress report on the test campaign.
- **Student Trainee in IT Services** Mohnheim, Germany
Sinell EDV Zubehör GmbH 2017
 - Observation in the design, installation and maintenance of high-end firewall, client-server and VPN solutions.
 - Repairs on laptops / PCs / server systems.
 - Networking of high-end printers.
 - Mission as Computer Maintenance Technician at the Cologne Hospital.

VOLUNTEERING

- **Treasurer** Paris, France
2019 – Present
Genius Campus Eiffel - entrepreneurship club
 - Overseeing and presenting budgets, accounts and financial statements to the management committee.

OPEN SOURCE PERSONAL PROJECTS

- **Wava (Java)** [github] : Collection of general-purpose utility classes with wide applicability.
 - Created static methods that operate on or return hash-maps.
 - Implemented unit tests using JUnit.
 - Continuous development using Travis CI.
- **Docsight (Python)** [github] : A tool for analyzing scanned files and export their content.
 - Used OpenCV to remove noise and clean up image.
 - Implemented Tesseract OCR to recognize text from image.
 - Exported content as JSON, could easily be exported to a NoSQL database.
- **School Management Tool (Java Spring)** [github] : A web-based, extensible platform for managing schools.
 - Used Hibernate to implement a relational database.
 - Created a dynamic search engine using Elasticsearch.
 - Deployed web application to AWS.
- **Ecezon (PHP Laravel)** [github] : A free, open-source e-commerce platform written in PHP based on Laravel.
 - Implemented online payments with Stripe.
 - Created dynamic search engine using Algolia.
 - Deployed web application to Heroku.
- **Mini Router (C/C++)** [github] : Simple router given a static network topology and routing table.
 - Created a simple router given a static network topology and routing table.
 - Implemented ping and traceroute to and through the router.
 - Handled various Ethernet packets including ARP, TCP/UDP, HTTP and ICMP.

OPEN SOURCE CONTRIBUTIONS

- **Node.js Nikita (CoffeeScript)** [github] : Automation and deployment solution with Node.js.
 - Migrated and refactored low level functions of the core engine.
 - Implemented unit tests to ensure functioning of actions both locally and remotely (via ssh).
 - Created Docker containers to ensure tests are executed in a proper Linux-based environment.
- **gatsby-theme-catalyst (ReactJS)** [github] : Themes and starters to accelerate development with GatsbyJS.
 - Improved post footer styles and format in blog themes.

TECHNICAL SKILLS

- **Languages (alphabetically)** : C, C++, HTML/CSS, Java, JavaScript, L^AT_EX, Markdown, ReactJS, SQL.
- **OS** : Unix, Microsoft Windows.
- **Software & Technology** : AWS, Computer Vision, Databases (SQL & NoSQL), DevOps, Elasticsearch, Git, Hibernate, Maven, Networking, NodeJS, OpenCV, vim, Virtualization, Web Technologies, Wordpress.

SKILLS & INTERESTS

- **Languages** : French (mother tongue), German (mother tongue), English (fluent), Spanish (notions).
- **Actuarial science** : applying mathematical and statistical methods to assess risk in finance.
- **Chess** : Ranked approx. 1600 elo.
- **Sports** : athletics, cycling, sailing.