Alexander Hoffmann

Looking for a software engineering position or freelance contract

EDUCATION

ECE Paris France

Master of Science in Computer Science 2016 - 2021

University of California San Diego

CA, USA 2018

Extension program in Computer Science and Engineering

EXPERIENCE

CEO & Founder Paris, France HOFFMANN.AI 2020 - Present

o 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.
- o Orange 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%.

InfraOps Engineer Paris, France Adaltas2021

- o Build infrastructure frameworks, systems and tools to deploy new global Adaltas products that scale over millions of users.
 - Ensure that on-premise and cloud-based systems and infrastructure is designed appropriately for security to ensure protection against current and future threats.
 - o Carry out deployment, maintenance, monitoring, and management tasks within a cloud structure.

Digital Competence Instructor

Bonn, Germany

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Deutsche Telekom

2021

- Plan for and implement digital devices and resources in the teaching process.
- Use digital technologies and services to enhance the interaction with learners, individually and collectively, within and outside the learning session.
- Enable learners to use digital technologies as part of collaborative assignments, as a means of enhancing communication, collaboration and collaborative knowledge creation.

Junior Software Developer

Düsseldorf, Germany

Sadnacaya GmbH & Co. KG

2018 - 2021

- o 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

- 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

Ayacandas GmbH

2019

2017 - 2018

- 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.

Software Tester Düsseldorf, Germany

- 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.

Treasurer Paris. France 2019 - 2021

Genius Campus Eiffel - entrepreneurship club

o 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 integration 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.
 - o 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++, Java, JavaScript, LATEX, Markdown.
- Big Data & Analytics : Ambari, Elasticsearch, Hadoop Stack.
- Databases : MongoDB, MySQL, PostgreSQL.
- DevOps & InfraOps: Ansible, Docker, Git, Kubernetes, Maven, Unix, Vagrant.
- Web technologies: AWS, CSS, HTML, Java Spring, NodeJS, ReactJS, Shopify, Wordpress.
- Other Software & Technologies: Computer Vision (OpenCV), Networking, vim, Virtualization.

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.
- Athletics: 2018 vice-champ in 100-metre dash, third place in triple jump at the regional level (Île-de-France).
- Sailing: seaman with a track record of successfully operating and supervising boating excursions.