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

CEO — Paris, France
HOFFMANN.AI — *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%.

InfraOps Engineer — Paris, France
Adaltas — *2021*
- 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.
- Carry out deployment, maintenance, monitoring, and management tasks within a cloud structure.

Digital Competence Instructor — Bonn, Germany
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*
- 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.

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.

Volunteering

- **Treasurer** Paris, France
  Genius Campus Eiffel - entrepreneurship club *2019 – 2021*
  - 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.
  - 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, LaTeX, Markdown, ReactJS.
- **Big Data & Analytics** : Ambari, Elasticsearch, Hadoop Stack.
- **Databases** : MongoDB, MySQL, PostgreSQL.
- **DevOps & InfraOps** : Ansible, Docker, Git, Kubernetes, Maven, Unix, Vagrant.
- **Web technologies** : AWS, DevOps, Git, Java Spring, NodeJS, 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.