

# Alexander Hoffmann

Looking for a 6 months software engineering internship during Summer 2021

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## EDUCATION

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

## EXPERIENCE

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- **Teaching Assistant** Paris, France  
*ECE Paris* *Sept 2019 - Present*
  - Assisting the instructor by providing tutoring to individual students or small groups of students in C/C++.
- **Junior Software Developer** Duesseldorf, Germany  
*Sadnacaya GmbH & Co. KG* *Aug 2018 - Present*
  - Creation of a Python script to upload a file onto an OCR web server and retrieve it as a PDF.
  - Configuration of a Manjaro VM onto a QNAP NAS to automatically back up mission-critical data on Write-Once-Read-Many archive storage.
  - Implementation of a OPNSense Firewall onto a virtual machine.
  - Development of an image analysis tool aiming to scan invoices and export its content to a database.
- **Junior Software Qualification Consultant** Duesseldorf, Germany  
*Ayacandas GmbH* *May 2017 - Present*
  - 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.
- **Software Developer Intern** Paris, France  
*Préfecture de police de Paris* *Jul 2019 - Aug 2019*
  - Development of a Java application to control backups and automatically notify system administrators.
  - Implementing new features to local web applications to meet user demands and improve overall performance.

## OPEN SOURCE PROJECTS

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- **Coin counter (Java)** [github] : Implementation of OpenCV Coin Detection in an image.
- **Node metrics (Typescript)** [github] : Simple web API to work on metrics.
- **School Management Tool (Java Spring MVC)** [github] : A web-based, extensible platform for managing schools. Used Hibernate to implement a relational database. Created a dynamic search engine using Elasticsearch.
- **Ecezon (HTML5, CSS, 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.
- **Mini Router (C/C++)** [github] : Simple router given a static network topology and routing table.

## TECHNICAL SKILLS

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- **Languages (alphabetically)** : C, C++, CSS, HTML, Java, L<sup>A</sup>T<sub>E</sub>X, Markdown, PHP, Python, SQL, UML.
- **OS** : Linux, Microsoft Windows.
- **Software & Technology** : AWS, Computer Vision, Elasticsearch, Github, Gitlab, Hibernate, Maven, Networking, NodeJS, OPNSense, REST API, Travis CI, vim, Virtualization, Wireshark.

## VOLUNTEER WORK

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- **Treasurer** Paris, France  
*Genius Campus Eiffel* *Apr 2019 - Present*
  - Holding a volunteer position as a treasurer at the entrepreneurship club at ECE Paris.
  - Overseeing and presenting budgets, accounts and financial statements to the management committee.

## SKILLS & INTERESTS

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- **Languages** : French (mother tongue), German (mother tongue), English (fluent), Spanish (notions).
- **Actuarial science** : applying mathematical and statistical methods to assess risk in finance.
- **Hobbies** : cycling, athletics, chess.