

# BILAL SEDDIKI

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*In the context of my last year of study, I am looking for an end-of-year internship/co-op for four to six months. I am available starting April.*

## EDUCATION

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### Paris Cité University

Paris, France

*"Master" in "Information et Mobilité"*

*Septembre 2022 – today*

*"Programmations, Algorithmes pour Internet, Répartition et Systèmes"*

*(Master's Degree in Information and Mobility: Programming, Algorithms for the Internet, Distribution and Systems)*

### Paris Cité University

Paris, France

*"Licence" in "Informatique" (Bachelor's degree in Computer Science)*

*September 2019 - June 2022*

## PROJECTS

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### File distribution protocol | Golang

2024

- Designed a peer-to-peer file sharing protocol
- Central server serving a RESTful API listing available peers with their addresses
- Implemented in Golang with UDP, with the following features: packet retransmission, NAT traversal, congestion control, security with digital signatures, etc.
- Sending files with chunks of 1024 bytes. File tree structure represented through a Merkle tree.

### ChessReader | Python, Tensorflow, OpenCV, Numpy, Kotlin

2022 - 2023

- Developed an HTML server serving a REST API receiving image data of chessboard and sending PGN representation of the board's content
- Developed an Android app able to send camera data to said server
- Collected own dataset, wrote script to automatically label images from written recorded games
- Preprocessed image data through various means (trimming, color shifting...) with OpenCV to make the data easier to train on by determining static content: case color, piece presence, piece color...
- Fully trained own model with said dataset

### Urban route planning software | Java, JavaFX, Gradle, Git, JUnit

2022 - 2023

- Team project involving 5 people, developed through Agile practices
- Implemented continuous delivery using GitLab CI/CD to build the project upon a new release
- Implemented shortest path algorithms to determine best itinerary between two locations
- Fully tested project with JUnit, with +80% coverage

### Spine Web Viewer | Google Web Toolkit, libGDX, HTML5 Canvas

2023

- Web viewer for Spine models and animation

## EXPERIENCE

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### "Gestionnaire courriers" (mail manager)

8 months

*Xerox Technology Services*

*Villepinte, France*

- Manipulating Office suite documents

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, php, SQL (Postgres, SQLite...), JavaScript, HTML/CSS, Kotlin, Go, Ocaml, LaTeX

**Frameworks:** Node.js, JUnit, WordPress

**Librairies:** Express, NumPy, Matplotlib, Tensorflow, libGDX, OpenCV, SFML, Selenium, Guava

**Tools:** Visual Studio, Git, Google Web Toolkit, SonarLint, Amazon Web Services

## SPOKEN LANGUAGES

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**French:** Native language

**English:** Fluent speaker