

# RIADE BENBAKI

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A computer science and optimization Master's student, seeking a spring **internship**

## EDUCATION

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### Ecole Polytechnique, Paris

August 2018 - Present

A highly selective Masters level engineering school.

**GPA: 3.9**

Majoring in Algorithmic and Efficiency, with courses computer vision and optimization

President of AI Student Association

### LYDEX, Benguerir

August 2016 - August 2018

Intensive 2-year university level preparation in Maths and Physics

*First in National Exam (CNC)*

## PROJECTS

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### Microsoft Silver Lining Chatbot Challenge : First Place

July 2020

Created CARE, a COVID-19 traveling advice bot, using BOT Framework and Azure services, in the context of a 2-day hackathon for Microsoft interns.

### ICPC Ecole Polytechnique Championship 2020 finalist

June 2020

As an individual participant in the contest, which contained 5 problems with difficulty comparable to the World Finals of the ICPC (International Collegiate Programming Contest)

### Optimizing user distribution over communication channels

January 2020

Comparing efficiency of different approaches (Greedy, LP solvers, Dynamic programming and Branch and Bound) to solve a multi-choice knapsack problem.

### Topic clustering within chatbots, with Accenture

September 2019 - April 2020

Working, in a team of 4 people, on different NLP techniques to enhance context change detection in conversations. Designed a transfer learning based algorithm achieving an F1-Score of 0.93

### Ecole Polytechnique AI Hackathon : First Place

September 2019

With a team of 4, working on xView2 challenge to assess damage in buildings after a disaster from satellite images, before and after disaster.

## EXPERIENCE

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### SNCF : French National Railway Company, Paris

June 2020 - August 2020

*Data scientist and ML engineering intern*

- Conceiving models to estimate incidents duration intervals in network. Work involving multivariate time series analysis and clustering to better define incident duration and detect delay patterns

### Technical University of Denmark, Copenhagen

July 2019 - August 2019

*Research assistant*

- Worked on McStas project, a software to simulate neutron scattering experiments. Developed new sample environments and debugged a new software component, using Python.

### XProjets, Paris

January 2019 - May 2019

*Software Engineer*

- Worked in the school's junior Enterprise to migrate a website from an outdated CMS to Wordpress, which included re-writing all the templates and adapting the website's functions to Wordpress.

## SKILLS

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### Technical Languages

C++, Python, JAVA, SQL, Spark, Scikit-learn, Tensorflow, LP Solvers  
Arabic, English, French and beginner in German