

# Hanae Rateau

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R&D engineer focused on user-centric software development

## Experience

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### R&D Software Engineer

**Worldline, France**

**2022-2024**

Prototyped, developed and deployed 7 innovative demos related to the future of payment.

Rapidly familiarized with diverse domains and tech: autonomous payments, virtual reality, digital identity (eIDAS 2.0).

Presented all demos to client meetings and international fairs.

### Post-Doctoral Researcher

**University of Waterloo, Canada**

**2019-2022**

Outlined, developed and evaluated 4 novel interaction techniques for smartwatch and smartphones using gestures made with the user's hands.

Published and presented the work to first-tier venues of the field.

### Post-Doctoral Researcher

**ESTIA, France**

**2017-2019**

Designed and developed a multi-device system for maintenance operators. Synchronizing a Hololens headset, a tablet and a digital pen for reading annotating technical documentation.

Published and presented the system to scientific venues.

### Teaching Assistant

**University of Lille, France**

**2015-2017**

Teaching computer science courses to undergraduate and graduate students. Spanning from Python introduction to design patterns and networks.

## Education

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**Ph.D degree in Human-Computer Interaction, University of Lille, France**

**2017**

Exploring Interactive Sub-Space for Gestural Midair Interaction.

**Master of Computer Science, University of Lille, France**

**2012**

Specialized in Image Vision and Interaction

**Bachelor of Computer Science, University of Lyon, France**

**2010**

## Skills

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programming full-stack AR/VR containers versioning

**Programming languages** Javascript, C#, Kotlin, Java, Python, HTML/CSS, C/C++

**Frameworks & Libraries** Git, Docker, Node.js, Vue.js, React.js, Jetpack Compose, Unity, Qt, JavaFX, OpenCV, OpenGL, Blender (API and modeling)

**Sensors and Hardware** Hololens, Optitrack, Leap Motion, Kinect, multitouch devices

**Environments** Windows, Android, Linux

**Languages** French (native), English(fluent)