

# Kevin Adrián Rodríguez Ruiz

Full stack developer

## About me

Chemical engineer with a MEng in computing with more than four years of experience in software development.

Experience with Web applications, Python, Java, Spring Framework, Nodejs, Amazon Web Services and VSTO Add-ins.

I am excited about integrating multiple disciplines and making things easier and accessible to people.

## Interests

Software development, Data analysis, Bioinformatics, Phenomena Modelling and Optimization.

Learning new engineering/science topics.

## Languages

Spanish (native)

English (fluent)

French (basic)

## Contact

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[LinkedIn profile](#)

[GitHub public repositories](#)

## SKILLS

Java, Javascript, Html, Node.js, Python, Django Framework, Reactjs, Amazon Web Services, VBA, Spring Framework, Git, VSTO Add-ins, Postgres, MongoDB, Rest, NoSQL, Scrum, Docker.

**Programs:** MS Excel, IntelliJ Idea, Aspen Plus.

## EXPERIENCE

**Consultant** (Amaris Consulting, 2019)

- + **Oficina en línea.** Full stack developer. Web application for the management of insurance policies. Technologies: Reactjs, Redux, Serverless, Amazon Web Services (Lambda, API Gateway, Redis, Dynamodb).

**Software Engineer** (Pontificia Universidad Javeriana, 2018 - 2019)

- + **ANSEP.** Astrocyte Neuron Simulation Environment Platform. Design and development. Web platform for the analysis of genome-scale metabolic reconstruction related to the study of neurodegenerative diseases. Technologies: Python, R, Django, Reactjs, Docker, Postgres.

**Systems Analyst** (Software Colombia SAS, 2015 - 2018)

- + **SCmail.** Design, development and maintenance. Massive email marketing platform. Technologies: Java, Spring Framework, Nodejs, Gradle, Amazon Web Services (EC2, Lambda, S3, Dynamodb, SES, Autoscale, CodeDeploy, SQS).
- + **SCmail upClient.** Development and maintenance. Desktop application for the upload of directories/files from a local drive to a repository on Amazon S3. Technologies: Java, JavaFX, Amazon STS.
- + **Elogic Monitor.** Design, development and support. Desktop application for the generation of digital signatures, encryption, and files upload, it can be invoked from all web browsers. Technologies: Javascript, Java and JavaFX.
- + **Edocument.** Development. Document management system created to supply the need of encryption operations and digital signature and requiring ensure authenticity during document flows. Based on Nuxeo (Java EE).

**Academic projects** (2017-2019)

- + **Rescurves.** Design and development. Open source MS Excel Add-in aimed to ease the three-dimensional plotting of residue curves maps for quaternary systems. Technologies: C#, VSTO.
- + **Master's final work: CAMD.** Design and development. Desktop application to solve the Computer Aided Molecular Design (CAMD) problem of finding the most suitable solvent for a liquid-liquid separation. It makes use of multi-objective optimization and databases mining algorithms. Technologies: Java, MongoDB.

#### **Freelance** (Fall 2016)

- + **Traveloso.** Development. Mobile applications intended to monitoring drivers via one mobile application. Technologies: Ionic, Spring Boot.

#### **EDUCATIONAL BACKGROUND**

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| 2016 - present | <b>M. Eng. in Systems Engineering and Computing</b><br>Universidad Nacional de Colombia (Colombia)                 |
| 2009 – 2015    | <b>Exchange Student for the MSc in Advanced Catalysis and Molecular Modelling</b><br>Universitat de Girona (Spain) |
| 2009 – 2015    | <b>Bachelor's degree in Chemical Engineering</b><br>Universidad Nacional de Colombia (Colombia)                    |