

KEVIN ADRIAN RODRIGUEZ RUIZ

Chemical engineer, software developer

About me

BSc. in Chemical engineer and MEng. in computing with more than five years of experience in software development.

Self-disciplined person and excited about interdisciplinary projects aimed to solve life-science problems by using computational approaches. I enjoy making scientific work easier and more accessible.

Computing skills

Java, Javascript, Node.js, Python, Amazon Web Services, Git, Reactjs, Spring Framework, Django, PostgreSQL, web applications, NoSQL databases, Scrum, Docker, VS Code, IntelliJ Idea, Aspen Plus.

Languages

Spanish (native)
English (fluent)
French (basic)

Contact

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[LinkedIn profile](#)



[GitHub public repositories](#)

Interests

Systems biology, computer science, chemical process simulation, mathematical modelling, bioinformatics, data science, optimization, software development.

Education

- 2016 - 2019 **M. Eng. in Systems Engineering and Computing**
Universidad Nacional de Colombia (Colombia)
- 2018 – 2019 **Exchange Student in the MSc in Advanced Catalysis and Molecular Modelling**
Universitat de Girona (Spain)
- 2009 – 2015 **Bachelor's degree in Chemical Engineering**
Universidad Nacional de Colombia (Colombia)

Short courses

- 2014 **Advanced Separation Operations. Separation Technologies in Biorefineries**
International Chair of Engineering, Universidad Nacional de Colombia
- 2017 **Introduction to innovation and the use of technology for learning**
International School, Universidad Nacional de Colombia
- 2014 **Software maintenance, evolution, and re-engineering**
International Chair of Engineering, Universidad Nacional de Colombia

Academic projects

- + **CAMD.** Master's final work. Computational tool to design environment-friendly solvents for liquid-liquid separation by applying Computer Aided Molecular Design (CAMD) techniques. The program uses multi-objective optimization, group-contribution methods and databases mining algorithms. Technologies: Java, MongoDB. [🔗](#)
- + **ANSEP.** Design and development of *Astrocyte Neuron Simulation Environment Platform*. Web platform for the analysis of genome-scale metabolic models related to the study of neurodegenerative diseases. Technologies: Python, R, Django, Reactjs, Docker, PostgreSQL. Project

funded by the *Pontificia Universidad Javeriana* and the *Administrative Department of Science, Technology and Innovation (Colciencias)*. [↗](#)

- + **Rescurves**. Open source MS Excel Add-in to automate the plotting of three-dimensional diagrams representing the residue curves maps of quaternary systems. Technologies: C#, VSTO Add-ins. [↗](#)

Employment

GNB Sudameris Bank (2020)

- + **Java developer**. Development of financial web services consumed by the mobile applications. Technologies: Java, Rxjava, Spring Boot, Amazon Web Services.

Amaris Consulting (2019 - 2020)

- + **Full-stack developer**. Development of web services and user interfaces for the management of insurance policies. Technologies: Reactjs, Redux, Serverless Framework, Amazon Web Services.

Software Colombia SAS (2015 – 2018)

- + **Full-Stack developer**. Design, development a web platform for massive email marketing platform. Technologies: Java, Spring Framework, Nodejs, Gradle, Amazon Web Services.
- + **Software developer**. Design, development and support of desktop applications signing information digitally, encrypting data and storing files in the cloud. Technologies: Javascript, Java and JavaFX.