

# Martin DAVILA

Lyon, Auvergne-Rhone-Alpes, France   aldntmi@gmail.com   0616794114   [linkedin.com/in/imartindav](https://www.linkedin.com/in/imartindav)

[imartindav.me](https://imartindav.me)

## SUMMARY

Highly motivated Full Stack Developer with 3 years of experience in PHP 8, ReactJS, Webpack, and PostgreSQL. My skills include understanding complex data models, developing efficient algorithms, creating effective data visualizations, and analyzing data sets. I have expertise in developing web applications, software, and database systems using Django, REST, PostgreSQL, and WebSockets. Additionally, I am experienced in React, Next.JS, and TypeScript, and have a proven ability to develop and test applications using predictive analytics and machine learning. With my skills, I have demonstrated the ability to build efficient and secure databases, making me an ideal candidate for any software development project.

## EXPERIENCE

### Software Engineer

#### Bioconductor

**June 2022 - Present, Baltimore City County, Maryland, United States · Remote**

- Analytics: Analyzed DNA sequence data from a high throughput screening experiment to identify optimal combination of parameters for the experiment.
- Developed a predictive model for employee retention using Logistic Regression, Support Vector Machine, and Random Forest algorithms. Achieved a 82% accuracy.
- Analyzed data, identifying trends and outliers, and evaluated data accuracy while developing processes to ensure future data integrity, resulting in 5X increase in operational efficiency.
- Skills: Data Analysis · Bioinformatics · Python (Programming Language) · R (Programming Language) · Pandas (Software) · SQL (Software).

## PROJECTS

### Personal Portfolio Website with React.js and Node.js

- Developed a personal portfolio website showcasing Github projects, resume, and technical skills using React.js, Node.js, and Express.js; the website has a clean and simple look, is easy to navigate, and is a useful resource for prospective employers; increased technical knowledge and understanding of the full stack.
- Increased the average time that each user spends on the site by 75% by using CSS3 for customization and React-Bootstrap for modern layout, while ensuring full responsiveness for all device sizes.
- Developed a Personal Portfolio Website with React.js and Node.js, tested using VsCode, and deployed with Vercel for efficient cloud-based deployment.

### MasterDex - Modern Android Development Showcase

- Android app showcasing modern Android development
- Written in Kotlin with minimum SDK level 21
- Utilizes Jetpack components such as Lifecycle, ViewModel, DataBinding, and Room
- Hilt used for dependency injection
- Retrofit2 & OkHttp3 used for constructing REST APIs and paging network data
- Follows MVVM architecture and Repository Pattern
- UI layer composed of UI elements that interact with user and observe data flow via DataBinding
- Data layer works independently and exposes data as a stream to other layers
- Custom views implemented, such as Rainbow, AndroidRibbon, and ProgressBar
- Uses Glide and GlidePalette to load images from network
- Timber used as a logger with a small, extensible API.

## EDUCATION

### Doctor of Philosophy(PhD)

Biomathematics, Bioinformatics, and Computational Biology • INSA Lyon • Lyon • 2022

## CERTIFICATIONS

### **Google Project Management**

Google • 2023

### **Google Data Analytics**

Google • 2022

### **Basic aspects of technical assistance**

Coursera • 2022

### **Bitcoin, Blockchain and Cryptocurrency Fundamentals**

Platzi • 2022

### **BrightCoders Ruby on Rails Graduate**

BrightCoders • 2022

### **Computer security: defending against digital dark arts**

Coursera • 2022

### **Operating systems and you: Becoming an advanced user**

Coursera • 2022

### **Google IT Support**

Google • 2022

### **Analysing data to answer questions**

Coursera • 2022

### **Azure AZ-900 Certification**

Platzi • 2022

### **Data analysis with R programming**

Coursera • 2022

### **Google Computational Data Analytics capstone course: complete a case study**

Coursera • 2022

### **IT infrastructure systems and services management**

Coursera • 2022

### **Processing dirty data to clean data**

Coursera • 2022

### **Sharing data through the art of visualisation**

Coursera • 2022

### **The bits and bytes of computer networks**

Coursera • 2022

### **Frontend Developer Practical Course**

Platzi • 2022

### **Data Marketer**

Platzi • 2022

## SKILLS

**Industry Knowledge:** Project Management, Back-End Web Development, Front-End Development, Data Analysis, Bioinformatics, Go (Programming Language), Object-Oriented Programming (OOP), Search Engine Optimization (SEO), Cybersecurity, Machine Learning, IT Operations, Artificial Intelligence (AI), Cloud Infrastructure

**Tools & Technologies:** Python (Programming Language), Ruby on Rails, R (Programming Language), Pandas (Software), Swift (Programming Language), Android, JavaScript, Node.js, React.js, PHP, C#, HTML, Cascading Style Sheets (CSS), Google Ads, Google Analytics, Linux, Git, .NET Framework, MongoDB, NoSQL