Edwin Brenes

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in /edwin-brenes

(c) /edwin-brenes

Senior year Computer Science and Mathematics Education Student at University of Costa Rica, learning and mathematics lover, with experience working as Back-end Software Engineer in agile teams. Software development and design enthusiast, looking for new challenges and opportunities to improve my skills and learn new ones

Education

Univerisity of Costa Rica Licentiate's Degree in Mathematics Education	2020 – Present San José, CR
Univerisity of Costa Rica Bachelor of Engineering in Computer Science	2017 – Present San José, CR
Univerisity of Costa Rica Bachelor of Education in Mathematics	2015 – 2019 San José, CR



SOIN Soluciones Integrales

Back-end Software Developer

Apr. 2021 – Present

San José, CR

> Design new solutions based on Software Design Patterns and build highly scalable REST APIs and webservices based on microservices with NodeJS, Express Framework, OracleSQL, PostgreSQL and jest

Technologie People Connection

Jan. 2021 - Apr. 2021

Back-end Software Developer (temporary contract)

San José, CR

- > Design and implement solutions based on microservices and RESTFul APIs with Java Springboot Framework
- > Design and implement relational databases according to business requirements

ECCI, University of Costa Rica

Aug. 2020 - Dec. 2021

Professor's assistant

San José, CR

- > Bring support to students from Software Engineering course and create new material to guide the student's learning and acquisition of new skills with .NET Technologies, JavaScript, HTML, CSS, Git, and Scrum Framework
- > Clarify students doubts about the subject and their projects development

School of Mathematics, University of Costa Rica

Jun. 2020 - Dec. 2020

Full-stack Software Developer (temporary contract)

San José, CR

> Build web application with .NET core tools and design a database relational model and his implementation with MSSQL

Centro de Investigación en Matemática Pura y Aplicada (CIMPA)

Aug. 2019 – Dec. 2019

Research assistant

San José, CR

> Research about mathematical dynamic models and differential equations systems

University of Costa Rica

Jan. 2019 – March. 2019, Jan. 2020 – March. 2020

Mathematics Professor

San José, CR

> Teach mathematic leveling course to first-year students

School of Mathematics, University of Costa Rica

Ian. 2018 - Dec. 2020 Professor's assistant San José, CR

> Bring support to students and clarify students doubts from courses: Functions in several variables (MAOO32) and Math Foundations (MA0003)

University of Costa Rica

2019 - Present

Academic projects

San José, CR

- > Build software and hardware simulations with threads, process and operating system calls in C++ and Python programming languages
- > Develop Parallel K-Means Algorithm in C++ and Python programming languages
- > Develop an Educational Web Platform with ASP.NET technologies under agile methodologies (Scrum framework)
- > Develop an 3D video game with C# and Unity
- > Develop a NLP project applying tf-idf technicians, statistical analysis and using Python programming language
- > Perform a SEIR mathematical model for COVID-19 analysis

Technologies and Skills

Programming

- > Programming languages: JavaScript (NodeJS), Java, C#, C++, Python, C, R, Matlab
- > Frameworks: Springboot, ExpressJS, .NET Framework and .NET Core
- > Front-end: HTML, JavaScript, CSS, Bootstrap
- > Parallel and concurrent programming: Pthreads, Threads, OpenMP and MPI with C++ and Python

Algorithms and performance

- > Analysis of algorithms, computational complexity and data structures
- > Deterministic and stochastic models, simulation and optimization

Testing

- > Unit Test and Integrated Test: Jest (NodeJS), Junit (Java), Moc and Native testing tools for ASP.NET,
- > UI automated testing: Selenium IDE and Selenium Web Driver

Databases

- > SQL: Advanced SQL, MSSQL, MySQL, PostgreSQL, OracleSQL
- > NoSQL: MongoDB and Redis
- > Data warehouses: Microsoft SQL Server Integration Services (SSIS) and SQL Server Reporting Services (SSRS)

Software Development

Agile methodologies Work in teams with Scrum

Control Versions Git Flow

Software Design Clean Code, OOP, Design Patterns, Architecture Design, Functional Programming



Spanish Native **English** Advanced