

Edwin Brenes

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o /edwin-brenes

Senior year Computer Science and Mathematics Education Student at University of Costa Rica, learning lover, with experience working as Back-end Software Engineer in agile teams, looking for new challenges and an opportunity to develop new skills.

Education

Universidad de Costa Rica

Licentiate's Degree in Mathematics Education

2020 – Present

San José, CR

Universidad de Costa Rica

Bachelor of Engineering in Computer Science

2017 – Present

San José, CR

Universidad de Costa Rica

Bachelor of Education in Mathematics

2015 – 2019

San José, CR

Experience

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 webservice based on microservices with NodeJS and Express Framework

Technologie People Connection

Back-end Software Developer (temporary contract)

Jan. 2021 – Apr. 2021

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

ECCEI, University of Costa Rica

Professor's assistant

Aug. 2020 – Dec. 2021

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

Full-stack Software Developer (temporary contract)

Jun. 2020 – Dec. 2020

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)

Research assistant

Aug. 2019 – Dec. 2019

San José, CR

- > Research about mathematical dynamic models and differential equations systems

University of Costa Rica

Mathematics Professor

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

San José, CR

- > Teach mathematic leveling course to first-year students

School of Mathematics, University of Costa Rica

Professor's assistant

Jan. 2018 – Dec. 2020

San José, CR

- › Bring support to students and clarify students doubts from courses: Functions in several variables (MA0032) and Math Foundations (MA0003)

University of Costa Rica

Academic projects

2019 – Present

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

Languages

Spanish Native

English Advanced