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Experience

Senior Software Engineer <div align="right">Oct 2021 − Aug 2023</div>

Possible Worldwide <div align="right">*San José, Costa Rica*</div>

- Developed back end API endpoints for Qualcomm Connected, enabling seamless data communication and interaction between different components. Python/Django was used to ensure efficient data retrieval, manipulation, and transmission. Docker images were employed for handling deployments to all rings.
- Provided maintenance to login endpoints for Qualcomm account, enabling seamless data communication and interaction between different components. Java, Spring, and MySQL were used to ensure efficient data retrieval, manipulation, and transmission. Docker images were employed for handling deployments.

Software Engineer <div align="right">Jul 2013 − Sep 2019</div>

Possible Worldwide <div align="right">*San José, Costa Rica*</div>

- Successfully led a team of three developers to perform a major overhaul of Mazda Mexico, a website with 1M+ visits daily. Oversaw the transition of multiple outdated Flash interactive maps and pages to dynamic Html5/JS/CSS3 components, implemented mobile and tablet compatibility by adding Bootstrap and Sass media queries, and achieved substantial enhancements in overall site performance by implementing asset lazy loading and caching for frequently accessed resources.
- Launched two whole site refreshments for At&t Thanks, a loyalty program portal with over 25M clients in the US. Tasks included developing new Python/Django end points for user login and authorization, unit tests design and execution as well as front-end enhancements on subpages for seasonal campaings. Typescript, Sass and Html5 were used for this purposes.
- Contributed to the development several UI components for ConEd website -New York's biggest platform for residential services payments - including users login, password reset and users claims page. A Html5/PatternLab/Mustache/JS stack was used for this project.
- Drove the development of front-end new features for Gates Foundation's Media Center site, including a revamped navigation menu for desktop/tablet/mobile, built using Pattern Lab.

Developer <div align="right">Sep 2011 − Jun 2013</div>

Avantica <div align="right">*San José, Costa Rica*</div>

- Provided maintenance to Calamp, a navigation services client based in Java, Spring and Hibernate. Database scripts maintenance in MySQL.
- Migrated legacy Php and Perl scripts to Java. Designed and executed Unit Tests using JUnit.

Intern/Developer <div align="right">Feb 2010 − Aug 2011</div>

Fiserv <div align="right">*Heredia, Costa Rica*</div>

- Developed new modules for GCMS (Genesis Correspondence Management System), a private-owned web application for handling banking correspondence based in JSP, Java and Maven.
- Awarded Top Performer and Outstanding Performer.

Education

Master of Cognitive Systems and Interactive Media <div align="right">2021</div>

Universitat Pompeu Fabra <div align="right">*Barcelona, Spain*</div>

Bachelor of Computer Engineering <div align="right">2010</div>

Costa Rica Institute of Technology <div align="right">*Cartago, Costa Rica*</div>

Academic Work

The Language of Art and Architecture using LLMs (2021). Master's Thesis Project. Identification and extraction of semantic relations in art and architecture corpora via fine tuning for domain adaptation over BERT, a pre-trained large language model from Google (Python, Pytorch, Tensorflow, spaCy). Full text available here.

Technical Skills

Languages: Python, Java, SQL, JavaScript/Typescript, CSS, HTML, Shell.
Developer Tools: Git, Sourcetree, Jira, Bitbucket, VS Code, Postman API, Dev Inspector.
Technologies/Frameworks: Django, Pytorch, Pyspark, VueJS, Sass, Bootstrap, JUnit, Pattern Lab, Npm, Yarn.