


Eric Portela

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Relevant Experience

IKEA/INGKA GROUP · Thesis Intern · Jan 2024 – June 2024

Customer Order 360 · Thesis Report Link - [LinkedIn](#) 

- Thesis work within Machine Learning
- Prediction of end states (whether or not order will be fulfilled) of customer sales orders, given a sequence of historical data events
- Problem definition, data preprocessing, LSTM, random forest, gradient boosting, model evaluation, data-driven architecture

LTH · Course Assistant · Aug 2023 – Oct 2023

Lunds Tekniska Högskola · Dept. of Computer Science

- CA in the courses Programming in Java (EDAA10) and Programming in Java, second course (EDAA30) at LTH
- Supported students and verified solutions
- The latter course focuses on constructing changeable and resource effective programs by using concepts such as data abstraction

Spotify · Mobile Engineer Intern · June 2023 – Sept 2023

Experience Mission · Scrabble Squad · EMEA Region

- My work included bug fixes and introducing new features, lifting data to the model layer and displaying it in the app
- Worked with everyday tasks on the iOS-client of Spotify, specifically the unlaunched Audiobooks page (launched 3rd October on several markets)
- Other tasks also included unit, UI and E2E testing. We worked agile, primarily using Jira, daily standups and retros after each sprint. I worked closely with other engineers and UI designers.
- Swift, UIKit, SwiftUI, Git, Bazel, protocol oriented programming
- Recruitment was open within the entire EMEA region (≈130,000 applicants, 71 EMEA/JPAC + 90 Americas Interns were eventually recruited)

LTH · Course Assistant · Sep 2022 – Dec 2022

Lunds Tekniska Högskola · Dept. of Computer Science

- CA in the courses Programming in Java (EDAA10)
- Primarily supporting students in their laboratory work, verifying their solutions and home assignments
- Course focuses on the basics of object-oriented programming, fundamental data structures, search algorithms (e.g. insertion and selection sort), and more
- Supported students and verified solutions

Skills

Programming Languages, etc.

Java, Swift, Python, HTML, SCSS (CSS), Javascript, MySQL

Frameworks + Libraries

Pandas, Scikit Learn, Matplotlib, Numpy, Seaborn, UIKit, SwiftUI, React, Node.js, Spring Boot, Express, Axios, Firebase

Tools

Vscode, Git, GitHub, ZShell, Xcode, Eclipse, Sketch, REST API consumption

Education

Lund University [2021–2024]

B.Sc. Computer science & Engineering

Korea University ISC 2024

Summer course, Machine Learning

Languages

Native

Swedish, Spanish, Russian

Professional proficiency

English

Selected Projects

Finalytica App iOS 

Developing an iOS app for equity research to be used as a screening tool. Provides quantitative data for publicly listed companies (NYSE and NASDAQ). Written in Swift. Frameworks such as UIKit, Charts, Firebase and Lottie were used. Data delivered through a Rest API.

LTH · Quantitative Analyst · Feb 2020 – Sep 2020

LINC, Lund University Finance Society · Trading & Quantitative Research

- Involved in a project through the student-driven organisation LINC
- Project assigned by a Swedish Currency Fund in order to analyse the reversal chart patterns double tops and double bottoms
- Designed and programmed an algorithm in Python, detecting reversal chart patterns in currency-pairs (EUR/USD) and traded these based on predetermined strategies using historical data
- The strategies' results were analysed and a project report was written

Finalytica Website

Showcasing website for Finalytica – a personal native-iOS application that is ought to provide historical financial data for publicly listed companies.

Relevant Courses

EDAF20 · Database Technology · Jan 2023 – May 2023

LTH, Lunds Tekniska Högskola

- Covers description of information systems with ER-models and UML-notation, translation to relational DB's, SQL, semistructured data (JSON), API's, etc
- Assessment is based on laboratory work, project work and one final exam

Final grade · 4

ECTS Credits · 7.5

EDAA10 · Programming in Java · Aug 2021 – Jan 2022

LTH, Lunds Tekniska Högskola

- Course covered implementation of algorithms to solve several intermediate problems, implementation of Java classes given a specification, structuring programs with classes and methods, etc

Final grade · 5

ECTS Credits · 7.5

13 labs + exam

EDAA30 · Programming in Java – 2nd course · Aug 2022 – Jan 2023

LTH, Lunds Tekniska Högskola

- Constructing program components which are easy to change, reusable and resource-aware, using advanced language constructs and programming techniques as well as data abstraction, data structures and algorithms
- Java collection framework, binary trees (treemap/treeset), hashtables (hashmap/hashset), priority queues, FIFO-queues, stacks, singly/doubly linked lists, recursion, interfaces, heaps, time complexity, quicksort, mergesort, streams, comparable/comparator (functional interfaces), etc

Final grade · 5

ECTS Credits · 7.5

6 labs + exam

FMAA50 · Calculus I + II · Aug 2021 – Mar 2022

LTH, Lunds Tekniska Högskola

- Course covered one-dimensional calculus (algebraic computations, functions, complex numbers and polynomials, limits, differential equations, derivatives, local extreme values, optimization, primitive functions, integrals, Taylor- and Maclaurin Formula, etc)

Final grade · 5

ECTS Credits · 13.5