Eric Portela

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EDUCATION

Lund University **Helsingborg**
B.Sc. Computer Science & Engineering *2021 - 2024*
- Object-oriented programming in Java, Data structures and Algorithms, Database Technology (MySQL, relational databases), Software Development for large Projects, Computer Architecture and Operating Systems, Mathematics (Calculus I & II, Linear algebra, Statistics and Probability Theory, Discrete mathematics, Calculus in several variables), Computer communication, Digital systems (VHDL, state machines, assembly), etc.
- Bachelor's thesis conducted at INGKA Digital Group (IKEA) in Malmö within ML.

Korea University **Seoul, Korea**
Summer Campus *June 2024 - Aug 2024*
- Attended a Machine Learning course taught by Dr. Yeil Kwon.
- Linear Regression, Logistic Regression, K-Nearest Neighbors, Cross Validation, Bootstrap, Subset Selection, Ridge Regression, Lasso, Dimensionality Reduction, Classification Tree, Bagging, Random Forest, Support vector Classifier, Support Vector Machine, PCA, Clustering, etc.

Lund University **Lund**
 2024 Aug - 2025 Jan
- Currently taking advanced level courses in Machine Learning, Control Systems and Software.

WORK EXPERIENCE

IKEA (INGKA Digital) **Malmö**
Thesis Intern (B.Sc.) *Jan 2024 - June 2024*
- Thesis work within Machine Learning conducted at INGKA Digital together with a co-student.
- The thesis work conducted a research for prediction of final states of customer sales orders, given a sequence of historical data events. Our research examined whether or not a partially placed order will be fulfilled by the customer or not.
- The work included problem definition, data cleaning and preprocessing, Exploratory Data Analysis, Feature selection and scaling, training three different Machine Learning Algorithms (LSTM, Random Forest and Gradient Boosting), model performance evaluation, hyperparameter tuning, Feature Significance, etc.
- The data was collected from a backend system based on an event-driven architecture that was bucketed in Google Cloud Platform.
- Python, Jupyter Notebook, Anaconda, Git, GitHub, Scikit-learn, Pandas, Numpy, Matplotlib, etc.

Spotify **Stockholm [Remote]**
Mobile Engineer Intern (iOS) *June 2023 - September 2023*
- I worked with everyday tasks on the iOS-client of Spotify, specifically the unlaunched Audiobooks page (launched 03/10/2023 on several markets) with the Scrabble Squad.
- My work included bug fixes and introducing new features, lifting data to the model layer and displaying it in the app. Other tasks also included unit tests, UI tests and Pull Request reviewing on GitHub.
- My changes and contributions to the base code of the iOS-app were merged and officially rolled out to the millions of Spotify's daily users, after rigorous manual and automated testing, CI/CD pipelines and Pull Request reviews from my team members.
- Among many tasks I was given the responsibility to introduce a new feature for indicating what part of a series an audiobook belonged to.
- Me and my team worked agile, using Jira for task management, Scrum as framework, daily standups and retros after each sprint according to the "Spotify Model".
- Xcode, Swift, UIKit, SwiftUI, Git, GitHub, Bazel, protocol oriented programming.

- Recruitment was open within the entire EMEA region (≈130,000 applicants, 71 EMEA/JPAC + 90 Americas Interns were eventually recruited).

Lund University (Department of Computer Science) **Helsingborg**
Teaching Assistant *Sep 2022 - Dec 2022*
- Teaching assistant in the course Programming in Java (EDAA10) at LTH.
- 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.
- Course manager: Nazila Hasanzade (nazila.hasanzade@cs.lth.se)

SELECTED PROJECTS

Fond|Data by Finalytica	Currently working on a project with the aim of displaying quarterly data for mutual funds. It's a fullstack project where the data is stored in a MySQL database, a REST-API created in node.js, frontend using TypeScript, React as framework and VITE as building tool. [Visit my portfolio website to see mockup: https://ericportela.github.io/#/work]
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. [GitHub repo: https://github.com/EricPortela/FinalyticaApp-iOS]
Finalytica Website	Showcasing website for Finalytica - a personal native iOS application that is ought to provide historical financial data for publicly listed companies. Website made in vanilla HTML, SASS and Javascript. [Visit https://finalytica.github.io/]

SKILLS & INTERESTS

Technical skills: Java, Python, Swift, Xcode, VScode, UIKit, SwiftUI, MySQL, relational databases, Javascript, Typescript, HTML, CSS3, SASS, Agile work, Scrum, Rest-API consumption, web scraping, Pandas, Scikit-learn, Numpy, Seaborn, UNIX, ZShell, Firebase, Axios, NodeJS, etc.

Languages: Swedish, English, Spanish, Russian

Interests: Long-distance running, Taekwondo and travelling.

REFERENCES

Given upon request.