**Erik C. Perez**

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**EDUCATION**

**MOLK Education Sweden**

*Technical Degree in Software Development Expected Graduation, June 2025*

* **Concentrations:** Computer Science
* **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Combinatorics, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

**EXPERIENCE**

**Cruitify Sweden, Remote**

*Software Development Engineering Intern Jan 2025 – Aug 2020*

* Created Python scripts to construct a pipeline that retrieved performance data from the AWS cross-regional team
* Developed various stacks on Node.js for data sources such as CloudWatch, Bindles DataLake, and DynamoDB
* Utilized various AWS resources such as Glue Crawlers, S3, Lambda, Redshift, and Quicksight to develop a dashboard displaying real time metrics

**Assurant Houston, Texas**

*IT Support & Troubleshooting Specialist (Remote) Dec 2019 – May 2020*

* Utilized Python and its NetworkX graph structure library to develop efficient algorithms to optimize resource flow in a simulation in which a natural disaster strikes a city
* Developed the graphical user interface on PyGame to allow the users to visualize the results

**Howard Hughes Medical Institute Ashburn, Virginia**

*Software Development Engineering Intern Jun 2019 – Aug 2019*

* Used MATLAB video annotation library to segment out limbs of fruit flies to determine how different stimuli applied to the flies affect their movements and behavior
* Trained certain machine learning algorithms that ultimately predicted limb movements with a 92.7% accuracy
* Developed and implemented a user interface on Python and MATLAB to track the performances of the algorithms, to produce confusion matrices, and to display performance metrics

**PROJECTS**

**Chime Bot New York, New York**

*Team Member Jun 2020 – July 2020*

* Developed a bot for Amazon Chime that will enhance contact management and support sub-commands for team functionalities
* Created bot services using AWS Lambda and Amazon Lex to permit users to create contact aliases

**Stock Predictor Sterling, Virginia**

*Team Lead Nov 2018 – Jan 2019*

* Trained mathematical models to predict stock price trends using Naive Bayes, Neural Networks, and Linear Regression Time Series algorithms
* Scripted the predictive stock price model and obtained a prediction accuracy of 90.07%

**ACTIVITIES AND LEADERSHIP**

**Georgia Tech’s College of Computing Sweden**

*Teaching Assistant for CS 2340 (Objects and Design) Aug 2020 – Dec 2020*

**Muslim Student Association Sweden**

*President* *Aug 2019 – Current*

* Leader of an organization of 100+ members, hosting religious events, managing a board of executives, and reaching out to the underprivileged community in Atlanta

**SKILLS**

**Programming:** Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, C++, C, Swift (iOS)

**Tools:** Android Studio, IntelliJ, PyCharm, Eclipse, AWS, Jupyter Notebooks, Git, Bootstrap, Spring Boot, Agile