

# Edward Nataniel Apostol

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## Education

### University of the Philippines Diliman

*Master of Science (Statistics)*

Aug 2018 – present

- Consistent university scholar for three semesters (GPA: 1.14/1.00).
- Recipient of ASTHGRP-NSC graduate scholarship of DOST-SEI.
- Research interests: machine learning and business analytics.

### University of the Philippines Diliman

*Bachelor of Science in Computer Science*

Jun 2010 – Jun 2015

- University scholar (2nd sem '13-'14) and college scholar (1st sem '13-'14).



## Work Experience

### Philippine Genome Center

*Bioinformatics Intern*

Jun 2019 – Jul 2019

- Received a training on the basics of molecular biology, genomics, and statistical data analysis.
- Worked on a research project where we analyzed the latest sequence data from the 1000 Genomes Project repository to test for the hypothesis that gene conversion events are biased towards G and C alleles. We used Python, R, Bash scripts, and bioinformatics tools such as Tabix and BEDTools for the data analysis.

### Nokia Technology Center Philippines, Inc.

*Research & Development Engineer*

Mar 2017 – Oct 2018

- *Software Developer*
  - Developed new features and provided application support for a software tool written in Java.
  - Developed new features that allow the software tool to accept new input trace formats.
  - Rewrote existing codes that improved the running time of the software program by around 50%.
  - Performed unit testing and code reviews to ensure that best practices are being implemented.
  - Created product documentations such as feature specifications and user manuals.
- *Scrum Master*
  - Coordinated with stakeholders to understand the business needs and to identify proper solutions.
  - Collaborated with the development team in the prioritization, estimation, and scheduling of tasks.
  - Facilitated the daily standup, sprint planning, sprint review, and sprint retrospective meetings.
  - Monitored and tracked the progress of tasks, updated dashboards, prepared status reports.
  - Identified and mitigated risks and impediments to ensure the completion of project goals.
  - Implemented process improvements to improve quality of work, productivity, and team dynamics.

### Infor PSSC, Inc.

*Software Engineer, Associate*

May 2016 – Mar 2017

- Implemented new features and fixed bugs for the front-end of an enterprise web application.
- Developed a feature that updates the timestamps in the web application based on the time zone of the user.

### Accenture

*Associate Software Engineer*

Aug 2015 – May 2016

- Participated in a two-month Java software development bootcamp.
- Automated some processes for a client in the healthcare industry using Fusion (RPA tool) and JavaScript.
- Volunteered as the overall sub-lead in center bench. Performed administrative tasks in Center Bench such as creating attendance reports, updating seats and assets inventory, revising report templates, and organizing orientation sessions.



## Skills

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- Programming using mainly **Python, Java**, and **C**.
- Web development using **HTML, CSS**, and **JavaScript**.
- Data analysis using **R, Python**, and **SAS**.
- Python libraries for data science such as **NumPy, Pandas, Matplotlib**, and **Scikit-learn**.
- Writing queries for a database using **SQL**.
- Version control systems such as **Git** and **SVN**.
- Creating documents and presentations using **LaTeX** and **Beamer**.
- Scripting in a Unix shell environment using **Bash**.
- **Agile** software development.
- Computer science concepts such as **algorithm design, data structures, database systems**, and **artificial intelligence**.
- Statistical and mathematical concepts such as **descriptive and inferential statistics, probability theory, sampling designs, linear algebra**, and **calculus**.
- Building and evaluating models using supervised and unsupervised **machine learning** techniques.



## Publications

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- Boñgolan, V. P., Terranova, O., Apostol, E. N., & Cruz, J. K. (2015). A Scenario Analysis for Flooding Vulnerability using Genetic Algorithms. Proceedings of the Asia Oceania Geosciences Society 12th Annual Meeting, 2-7 August 2015, Singapore.



## Other Information

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- Have taken 12 units of technology management courses at the UP Technological Management Center.
- Volunteer mathematics lecturer from 2012-2014 for CATALinuhan, an annual college entrance exam review conducted by UP LAKAN.
- Vice President for Membership and Recruitment of UP Circle of Engineering Students (Apr 2014 – May 2015). Led a committee in handling membership matters, recruiting new members, and ensuring an effective application process.