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PYTHON DEVELOPER AND DATA SCIENCE

MSC BIOMATHEMATICS AT STRATHMORE UNIVERSITY

BSC MATHEMATICS AND COMPUTER SCIENCE

PROFILE

Innovative and scientifically rigorous recent graduate with significant data science, Statistical, and Python experience to bring to the table. With a team-oriented attitude, I am eager to contribute my abilities in quantitative modeling and experimentation to enhance the experience of Pinterest users around the world.

EXPERIENCE

VOLUNTARY STATISTICS AND MATHEMATICS TUTOR

Strathmore university January 2022-Present

- Assessed students' learning to determine learning weaknesses and needs,
- successfully helping students perform 13% better in algebra, pre-calculus, calculus, and statistics undergraduate courses.
- Tasked with tutoring first and second-year college students in algebra statistics and calculus.
- Provided 6 hours weekly in Student Tutoring Center for walk-in or pre-scheduled Math help.
- Developed instructional material to aid students in studying and note-taking.

SENIOR PYTHON DEVELOPER

Trendy Gadgets Company Ltd May 2021-November 2021

- Handled programming tasks for and maintained 7 internal websites with a high success rate (97%) in product update deployment.
- Worked on high-impact projects, e.g., content aggregator and expense tracker, delivering solutions with lower than 20% code churn.
- Developed a marketing lead MySQL database, collecting, categorizing, and filtering leads from various stakeholders, i.e., www, social media channels, or newsletters.
- Led sprint planning meetings and divided tasks between a 15-person project team.
- Tutored at three high schools every year, teaching young kids how to code in Python.
- Automated and optimized collecting data using SQL, reaching over a 35% system response time boost.
- Collaborated cross-departmentally on RPA to streamline issue management and migrate the current environments to the cloud, reducing the investment risk by 48%.

EXPERIENCE

PYTHON DEVELOPER/TESTER

Trendy Gadgets Company Ltd October 2020-May 2021

- Successfully automated the moving of 5 tests from production to staging and staging to production by carefully reading the keywords.
- Consumed APIs while utilizing Python requests to read numerous JSON reports and file automatic bugs in the NVBugs for intermittent tests.
- Designed and configured database and backend applications and programs, contributing to operations continuity and increasing efficiency by 14%.
- Developed, tested, and debugged software tools utilized by 100+ clients and internal customers to facilitate an easier process and user experience.
- Obtained adequate experience in reviewing Python code for running the troubleshooting test-cases and bug issues, acquiring all necessary skills.
- Developed web application back-end components while communicating with 30+ clients to identify their needs/goals and work on meeting them.
- Worked on the improvement of data protection and security, increasing security rate by 24 % while creating new user information solutions.
- Maintained large databases and configured services to reduce software maintenance expenses, decreasing the costs by 15% within just one year.
- Trained and supervised 3 employees, providing training support/guidance.
- Obtained the Employee of the Year Award for meeting and exceeding all assigned goals and objectives and contributing to 33% overall success.

PYTHON DEVELOPER INTERN

Trendy Gadgets Company Ltd January 2020-October 2020

- Designed robust, scalable, secure, and globalized web-based applications to ensure the continuity of all business processes and client satisfaction.
- Used the Python language to develop 3 web-based data retrieval systems.
- Performed data entry and other clerical work for project completion.
- Conducted descriptive and multivariate statistical analysis of data using Matlab, gaining a 100% accuracy rate in terms of interpretation and analysis.

DATA SCIENCE AND ADMINISTRATOR

Data Glacier :: South Korea January 2021-May 2021

- Developed a program in SAS that automated refinement of linear regression models for specific segments of a customer base that saved 22 hours of labor per month.
 - Received, cleaned, and prepped data from clients using R, STATA, PYTHON SAS, SQL, and Excel to help data scientists build marketing mix models that resulted in a lift in ROI of 10 basis points.
 - Fulfilled all data science duties for a high-end capital management firm.
 - Created and presented models for potential holdings to fund managers. Achieved 20% better returns vs historical performance.
 - Created machine learning tools that computed adjusted P/E values.
 - Predicted stock price 25% better than traditional figures.
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DATA SCIENTIST & IT OFFICER

Strabag International GmbH | cologne, May 2018-July 2019

- Developed end-to-end machine learning prototypes and scaled them to run in production environments. Increased efficiency by 23%.
- Contributed meaningful improvements to existing machine learning models through carefully directed research.
- Derived actionable insights from massive data sets with minimal support.
- Provided input into the collection of new data sources and the refinement of existing ones to improve analysis and model development.
- Consulted and worked with development teams to determine, execute and deliver relevant solutions.
- Analyzed old information architectures and contributed to the design and development of the new one.
- Provided information, feedback and guidance to clients to support technology-related decision making
- Conducted A/B testing to solve client pain points in learning platforms, and identified and recommended
- solutions to solve unclear platform roadmaps, which reduced the bounce rate by 62%
- · Extracted data from 7 disparate sources, and increased agility and accuracy with a centralized system
- · Constructed decisions trees to optimize needed algorithms to better target the learning audience by 15%

ADMINISTRATOR & INFORMATION ANALYST

BradeGate International college May 2016-August 2016

- · Built out the data and reporting infrastructure from the ground up using
- Tableau and SQL to provide real-time insights
- into the product, marketing funnels, and business KPIs
- · Designed and implemented A/B experiments for products to improve the
- conversion rate by 19 basis points and reduce
- churn by 12 basis points
- · Implemented a long-term pricing experiment that improved customer value by
- 25%
- Developed and owned reporting for a nationwide retention program with
- Python, SQL, and Excel, saving ~90 hours of
- monthly labor
- · Identified procedural areas of improvement through customer data, using
- SQL
- to help improve the profitability of a
- nationwide retention program by 8%
- · Applied models and data to understand and predict repair costs for vehicles on
- the market, and presented findings to
- stakeholders
- Present information in a way that is easily understood including through visuals,
- graphic means such as mapping but also through tables, charts, and narrative
- writing leading to a quality presentation by 50%.
- Establish and maintain an information management network per IASC guidance
- to facilitate humanitarian information exchange and promote data and
- information standards for 250 users.
- Provide training and expertise on the use and development of information
- management tools and platforms to OCHA staff and humanitarian partners

TECHNICAL SKILLS

- Python (NumPy, Pandas, Scikit-learn, Flask), SAS; SQL - Redshift, MySQL;
- Python, JavaScript, CSS3, HTML5, SQL
- ORM libraries
- Web frameworks: Django
- MVC and MVT Architecture
- Design skills
- Problem-solving skills
- Communication skills
- Data visualization
- Agile frameworks
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BEHAVIOURAL COMPETENCIES

BEHAVIOURAL COMPETENCIES

- Strategic thinking
- Planning and delivering results
- Working with people
- Communicating with impact and respect
- Social perceptiveness
- Proven skill in resolving problems quickly on the first call.
- .Analysing of data
- Handling insecure environments
- Social perceptiveness
- Active listening

COMPETENCIES

Functional Competencies

- Programming: Python (Scikit-learn),
 - SQL, R -Programming, Matlab, STATA.
 - Data Visualization: Tableau, Excel, Google Sheets, Matplotlib
 - Modeling: Logistic regressions, linear regressions, decision trees
 - Product Analytics: Google Analytics, A/B Testing & Experimentation
 - Consistently approaches work with energy and a positive attitude;
 - Remains calm, in control, and good-humored even under pressure;
 - Demonstrates openness to change and ability to manage complexities.
 - Actively works towards continuing personal learning and development and
 - applies newly acquired skills.
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EDUCATION

MSC IN BIOMATHEMATICS

Strathmore University

- application of Computer science and Engineering in Modelling.

BSC MATHEMATICS AND COMPUTER SCIENCE

Kirinyaga University of Science and Technology January 2019 - November 2014

- Second class honors 2:1 GPA (3.63/4) excelling in Computer science ,Engineering and Application of Mathematics in IT

(K.C.S.E) KENYA CERTIFICATE OF SECONDARY EDUCATION

Naromoru mixed Secondary school January 2013 - November 2009 Grade B-Plain

- Attained certificate in O-level

CERTIFICATION

CISCO (CCNA 1,2 3)

Kenyatta university January 2018 - August 2018 Grade distinction

- Attained certificate in Networking , Routing , Switching and Configuraton of LAN , WAN , Servers etc

REFEREES

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