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Top Skills

NIST Cybersecurity Framework
DevOps Principles
Deep Learning (TensorFlow & Keras)

Certifications

Introduction to Programming Using Python
BCG - Data Science Job Simulation
Accenture Nordics - Software Engineering Job Simulation

Honors-Awards

Bachelor of Information & Computer Science in Application Development

Venkata Vikranth Jannatha

Varsity College Grad | Ex-Junior Dev | Pursuing in Data Analytics | DSA in Python | Real Project Experience
Cape Town, Western Cape, South Africa

Summary

Trying to turn "Hello World" into real-world impact.

I'm a recent graduate in Application Development and currently diving deep into the world of Data Analytics. From building full-stack apps to decoding machine learning models, I enjoy solving problems and bringing ideas to life through code.

Currently pursuing my Postgrad in Data Analytics, I'm exploring everything from predictive modeling to real-world pattern recognition. I've worked with C#, Java, Python, SQL, and modern frameworks—always hungry to learn and push boundaries.

When I'm not debugging code, you'll probably find me outdoors staying active or diving into a good conversation. I believe that great ideas are born from collaboration, curiosity, and a solid amount of Sleep.

Still learning. Still building. Always improving.

Experience

Quantum
Data Science Virtual Intern
October 2025 - Present (3 months)
City of Cape Town, Western Cape, South Africa

Accenture
Junior Software Engineer
July 2025 - October 2025 (4 months)

Completed comprehensive Software Engineering training focused on architecture, security, programming, testing, and Agile methodologies through a Digital Health case study—a healthcare booking platform serving 2,000+ patients.

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- ✓# Analyzed cloud-based healthcare architecture, evaluating scalability, performance, and security across compute, storage, and network layers.
- ✓# Recommended a hybrid IaaS–PaaS model on Microsoft Azure with on-prem storage for sensitive data (POPIA compliance) and cloud deployment for app services.
- ✓# Assessed migration risks and trade-offs between IaaS and PaaS for secure healthcare operations.

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- ✓# Conducted a NIST Cybersecurity Framework assessment, identifying IAM and SSDLC maturity gaps.
- ✓# Proposed a four-tier data classification framework (Public, Internal, Confidential, Restricted) to protect patient information.
- ✓# Integrated SSDLC in Agile workflows using shift-left security, CI/CD scanning, and automated vulnerability detection.

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- ✓# Reviewed and debugged backend authentication logic ensuring bcrypt hashing and secure credential storage.
- ✓# Compared algorithm efficiency (binary search, modular functions) to enhance system performance.
- ✓# Performed peer code reviews focusing on maintainability and security.

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- ✓# Designed UAT scenarios for registration, authentication, and account management workflows.
- ✓# Created unit tests for email validation, password complexity, and verification logic.
- ✓# Ensured compliance with input validation and password security standards.

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- ✓# Applied Agile practices: sprint planning, retrospectives, CI/CD, and iterative development.
- ✓# Explored DevOps automation for continuous delivery and cross-functional collaboration.

May 2025 - July 2025 (3 months)

Completed the BCG X Data Science virtual experience program focused on reducing customer churn for PowerCo, a simulated energy provider, applying data analytics and consulting methodologies to real-world business problems.

Analyzed 14,606 customer records (2009–2015) using Python (Pandas, NumPy, Seaborn) and Excel, performing exploratory data analysis (EDA) to challenge the hypothesis that churn was mainly driven by price sensitivity. Discovered that net margin, 12-month consumption, and short tenure (<4 months) were stronger churn predictors.

Engineered 60+ features from 34 variables using temporal transformations (tenure, months active), price sensitivity indicators, and statistical scaling for skewed data distributions.

Built and validated a Random Forest classifier (1,000 estimators) achieving 90.3% accuracy and 82% precision on a 75-25 split. Interpreted model outputs through feature importance analysis and decision trees to support explainable AI.

Developed visual analytics including correlation heatmaps, consumption distribution plots, and churn-risk dashboards to communicate results clearly to stakeholders.

Translated technical insights into strategic retention recommendations: target low-tenure customers, offer retention incentives for non-gas contracts, and use predictive scoring for proactive engagement.

Delivered an end-to-end churn analytics workflow while pursuing postgraduate studies—demonstrating BCG X's consulting approach of problem framing, data cleaning, hypothesis testing, modeling, and executive storytelling.

Skills: Python • Pandas • NumPy • Scikit-learn • Matplotlib • Seaborn • Random Forest • Feature Engineering • Churn Prediction • Data Storytelling • Business Analytics

Digicall Group

Junior Software Developer

May 2024 - March 2025 (11 months)

City of Cape Town, Western Cape, South Africa

Currently completing an 10-month part-time contract as a Junior Developer, designed to provide deep, hands-on industry experience. This role has been a transformative journey, offering a steep learning curve and exposing me to real-world software development challenges.

Throughout the contract, I've worked extensively with SQL database management—designing, querying, and optimizing databases to support reliable and scalable backend systems. I've also had the opportunity to work on three distinct systems, each with unique functionality and complexity, pushing me to adapt and think critically.

One of my major projects involves migrating an entire ASPX-based system to Razor Pages, both frontend and backend. This has greatly expanded my knowledge of MVC architecture, Razor syntax, and ASP.NET web application development using C# and the .NET Framework.

My responsibilities include resolving bugs across frontend and backend, building new features, testing and reviewing code before integration, and contributing to version control workflows. Each project has allowed me to refine my skills in full-stack development, teamwork, and quality assurance.

This opportunity continues to build a solid foundation in professional development—and I'm excited by how far I've come, and even more excited about what's still to come.

Education

IIE Varsity College

Postgraduate Degree, Data Science · (March 2025 - December 2025)

IIE Varsity College

Bachelor's degree, Computer Science and Information Science in Application Development · (March 2022 - November 2024)

Hoërskool Bosemansdam High School

National Senior Certificate · (January 2017 - November 2021)