

Nicholas Bindela

New York, New York, US | SOFTWARE ENGINEER
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EDUCATION

Columbia University

Master of Science - MS, Computer Science

New York, NY
Expected Dec 2025

- Relevant course work: Databases, Algorithms, Artificial Intelligence, Applied ML, UI Design, AI in Finance

Bucknell University

Bachelor of Science - BS, Computer Science and Engineering - Minor in Economics

Lewisburg, PA
May 2021

- Relevant course work: Linear Algebra, Discrete Structures, Multi-Var Calculus, Probability & Statistics

LANGUAGE AND IT SKILLS

Languages & Frameworks: Python, SQL, Node.js, React.js, Javascript, HTML5, CSS3, C#, Common-LISP

Python Libraries: Flask, FastApi, Numpy, Pytorch, Scikit-learn, Matplotlib, Pandas, TensorFlow

Tools & Platforms: AWS, Terraform, Jenkins, Git, Postgresql, MongoDB, MySQL, Apache Spark

AWS: EMR, EC2, S3, Route53, DynamoDB, Lambda, ECS, SQS, SNS, Kinesis, Fargate, Cloudwatch, EventBridge

WORK EXPERIENCE

Chewy

Software Engineer II

Software Engineer I

Boston, MA
Oct 2024 - Jan 2025
Sep 2022 - Oct 2024

- Engineered AWS infrastructure, onboarding ML models to supply chain platform
- Devised scalable data solutions operating within SQL and Python, augmenting research productivity
- Directed data pipeline development with Vertica and AWS, guaranteeing smooth data transition
- Designed a novel high performance service, containing six relational database schemas and four sub-services. orchestrated a team of engineers through implementation, providing guidance and support as needed

Ask2AI

Research Assistant

New York, NY
Jun 2024 - Aug 2024

- Led development and testing of predictive models for commercial loan defaults, trained and tested over 10 linear and tree based models to predict commercial loan defaults
- Through data preprocessing, hyper-parameter tuning, and innovative feature engineering techniques, I trained a86 after preprocessing and hyper-parameter tuning on Gradient Boosted Trees to classify commercial loan default labels with an AUC of over 0.96
- Employed innovative feature engineering by aggregating loanee asset and debt holding information into dataset. Increased AUC to over 0.96 with CatBoost model
- Employed Shapley Adaptive Reasoning to provide transparency into model reasoning. Discovered a commercial loanee's industry can increase default probability, specifically the Technology industry

FAST Enterprises

Implementation Consultant

Hartford, CT
Sep 2021 - Aug 2022

- Implemented a tax refund subsystem using C# and MySQL, resolved refund-related issues during two major software rollouts, and led weekly client meetings to refine software functionality based on feedback

Bucknell University

AI and Cognitive Science Research Assistant

Lewisburg, PA
Jun 2019 - May 2020

- Conducted NSF-funded research over 12 months to develop a cognitive agent API using Python and Common-LISP, enabling human-like agents to learn from simulated environments and perform simple tasks

PROJECTS

Social Media Friendship Application

Sep 2024 - Dec 2024

- Designed and developed a social media application by consulting stakeholders, prototyping 30 potential solutions, creating low and high-fidelity screens, and implementing a React front end with a Flask back end

Spotify Track Popularity Prediction

Sep 2024 - Dec 2024

- Built and optimized regression models to analyze a dataset of 30,000 Spotify tracks, achieving a 9% improvement in MAE compared to baseline models and identified key predictors danceability, energy, and valence, with tree based models having best performance