Nicholas Bindela

New York, New York | Software and Machine Learning Engineer
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EDUCATION

Columbia University New York, NY
M.S. in Computer Science - Machine Learning concentration, **GPA: 4.2** Expected Dec 2025
- Relevant coursework: Databases, Algorithms, Artificial Intelligence, Applied ML, UI Design, AI in Finance

Bucknell University Lewisburg, PA
B.S. in Computer Science and Engineering - Economics minor, **GPA: 3.7** May 2021
- Relevant coursework: 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

Stealth Startup (Part-Time) New York, NY
Co-founder & Engineering/Product Lead Jan 2025 - Present
- Led end-to-end development of a startup application, transforming the CEO's vision into a functional design. Defined MVP scope to best address stakeholder needs
- Managed a team of three engineers, devising Epics and User Stories, distributing tasks, providing technical guidance, and contributing hands-on to development

Chewy Boston, MA
Software Engineer II Oct 2024 - Present
- Engineered AWS infrastructure, onboarding ML models to supply chain platform
- Designed a new service, containing six relational database schemas and four sub-services. Orchestrated a team of engineers through implementation, delivering guidance and support as needed

Software Engineer I Sep 2022 - Oct 2024
- Built a service to load input data to S3, utilized Crawlers to make data available to query in Athena, created EventBridge schedules to trigger 8+ ML models to run on EMR
- Implemented Lambdas to process output data from ML models and then send to external systems. Data is used to send Purchase Orders to over 100 vendors each day

Ask2AI (Part-Time) New York, NY
Machine Learning Research Assistant Jun 2024 - Aug 2024
- Led development and evaluation of predictive models for commercial loan defaults, training and testing over 10 linear and tree-based models to improve prediction accuracy
- Improved previous best AUC by 11%, achieving a new high of 0.96—surpassing prior benchmarks through advanced feature engineering, data preprocessing, and hyperparameter tuning
- Utilized Shapley Adaptive Reasoning to enhance model interpretability, revealing a commercial loanee's industry—particularly in Technology—significantly impacts default probability

FAST Enterprises Hartford, CT
Implementation Consultant Sep 2021 - Aug 2022
- Implemented a tax refund subsystem using C# and MySQL, resolved refund-related issues during two major software rollouts, and ran weekly client meetings to refine software functionality based on feedback

Bucknell University Lewisburg, PA
AI and Cognitive Science Research Assistant 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

End-to-End Social Media App: UI/UX & Fullstack Development 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

Predicting Spotify Track Popularity Using Regression Models 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