

Humza Khalid

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EDUCATION

Rutgers University, New Brunswick, NJ

B.S. in Computer Science | Expected May 2029

August 2025 - Present

Relevant Coursework

- Data Structures, Computer Architecture, Intro to Discrete Structures I, Linear Algebra

West Windsor-Plainsboro High School South, Princeton Junction, NJ

High School Diploma

September 2021 - June 2025

- Coursework: AP Computer Science A, Advanced Topics in Computer Science
- Activities: Three-sport varsity athlete in wrestling, football, and baseball

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, TypeScript, HTML, SQL
- **Libraries & Frameworks:** Next.js, React, Node.js, Express, Prisma, pandas, scikit-learn, XGBoost, FastF1
- **Developer Tools & Infrastructure:** PostgreSQL, SQLite, AWS, Vercel, GitHub, Jira, REST APIs, Twitter/X API, web scraping
- **Core CS:** Data Structures & Algorithms, time and space complexity, algorithmic problem solving

EXPERIENCE

Cotton Valley Home | Operations & Data Support Intern

June 2025 - September 2025

- Built inventory and website-tracking spreadsheets and dashboards
- Cleaned and organized product data to make reporting more accurate and efficient
- Documented workflows to streamline order processing

PROJECTS

F1 Race Winner Prediction Model | Python, pandas, scikit-learn, XGBoost, FastF1

- Built a machine-learning pipeline to predict Formula 1 race winners using historical race data
- Engineered features from race results, qualifying positions, and driver and team statistics
- Trained and evaluated XGBoost classification models using train/test splits and performance metrics
- Addressed class imbalance during model development and evaluation

BetGrades | Sports Betting Tracker & Analytics Web App

- Built a full-stack web application to track sports picks, odds, win rate, streaks, and return on investment
- Integrated the Twitter/X API and web scraping to collect picks data from users
- Designed a PostgreSQL schema with Prisma ORM and developed dashboard views for performance analytics
- **Technologies:** Next.js, React, Node.js, PostgreSQL, Prisma, REST APIs, Twitter/X API

TenBillion | Market Cap Screener

- Built a Python application that pulls stock data from financial APIs
- Filters and displays publicly traded companies with market caps over \$10B
- Implemented clean models and API parsing logic
- Practiced object oriented design and error handling
- **Technologies:** Python, REST APIs, Alpaca API