Sajid Amin

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EDUCATION

St. John's University, College of Professional Studies **Expected May 2027**
Bachelor of Science in Computer Science **GPA 4.0**
Coursework: Data Structures and Algorithms, Fundamentals of CyberSecurity, Object-Oriented Programming, Software Design, Data Security and Cryptography, Database Management, Theory of Programming, Computer Architecture, Intro to Networks, Discrete Math, Calculus 1 & 2, Stats 1
Awards: Dean's List 23-24, Dean's List 24-25, Phi Eta Sigma National Honor Society, University Honors, **CodePath Web101 & Web102**

EXPERIENCE

AI Engineer Intern | *Sj Innovation LLC* **July 2025-August 2025**
- Built an AI agent on CollabAI by designing advanced prompts and integrating plugins to analyze public datasets, enabling automated detection of trends, anomalies, and key metrics
- Tested the agent on **10+ diverse public datasets** (market research, financial, and academic) to validate output quality, achieving **85%** accuracy in trend/anomaly detection and reducing manual analysis time by **~70%** across researcher and analyst use cases.

Software Engineer Intern | *Chip Server LLC* **June 2025-August 2025**
- Reduced instructor prep time by **30%** by engineering a real-time whiteboard in React and WebSocket with support for dynamic annotations on blank canvases, PDFs, and Word documents, featuring custom stroke rendering algorithms and multi-touch gesture support
- Boosted student engagement by **45%** with a scalable quiz system using React Context API, Express REST APIs, and WebSocket sync
- Used Jest for unit, integration, end-to-end testing of WebSocket connections and multi-user scenarios

Full-Stack Engineer Intern | *Mancer Robotics* **November 2024-June 2025**
- Improved data processing speed by **30%** by developing APIs that streamlined 3D data visualization workflows via Open3D and Pyvista
- Designed a 3D Digital Twin system with LiDAR, enabling **95% accurate** real-time modeling for field environments
- Built and deployed a marketing website and landing page to onboard early beta testers and gather user feedback
- Enhanced operational control by building a web-based app interface for administrators to manage, and monitor operations in real time

Software Engineer Intern | *Institute for Machine Learning* **September 2024-December 2024**
- Built a responsive React-based website supporting **100+ users**, streamlining client onboarding and enabling seamless login
- Enhanced UI/UX of login page, reducing loading times and bounce rate by **25%** and improving time-on-page by **15%**
- Designed backend with Maven and SQL, securely handling **1000+ authentication events** during testing

PROJECTS

SmartBot **github.com/SajidcodezSmartBot**
- Developed a Disney-themed chatbot application using React and Google Gemini API, enabling real-time responses to user queries
- Engineered REST API calls to fetch and deliver information about park hours, ticketing, and dining options at Walt Disney World
- Built a responsive user interface, enhancing user experience through dynamic chat components and seamless API communication

NoteBeats | *STJHacks* **github.com/Sajidcodez/NoteBeats**
- Built a full-stack Next.js app that converts study notes into musical audio, featuring a responsive UI with TailwindCSS and TypeScript
- Integrated AI services like OpenRouter, ElevenLabs, Hugging Face to enable lyric generation, voice synthesis, and text summarization, using real-time streaming for seamless audio delivery
- Created backend APIs for content processing and audio generation, utilizing AWS S3 for asset storage and external APIs for audio merging

Co2-Leaderboard | *NYUHacks* **github.com/Sajidcodez/Co2-Leaderboard**
- Created a tracking application using React, TypeScript, Flask, and PyTorch, with machine learning predictions for future emissions trends
- Implemented dashboard with US map and real-time analytics, leveraging Recharts and React Simple Maps for data visualization
- Built a neural network model in PyTorch to predict CO2 emissions on historical data, improving forecasting accuracy and insights

Flappy Bird 2.0 **github.com/Sajidcodez/FlappyBird-2.0**
- Built leveraging Js, with efficient game mechanics like gravity, collision detection, and real-time score tracker with **200+** users since launch

LEADERSHIP/PROFESSIONAL DEVELOPMENT

CodePath Tech Fellow | *CodePath* **June 2025-Present**
- Mentor and assist the next generation of software engineers and tech enthusiasts through hands-on activities and project based learning

St. John's ACM Student Chapter | *ACM* **September 2024-Present**
- Expand technical skills and career readiness by engaging in **30+** workshops and labs, covering Python, APIs, AWS, & Web Development
- Collaborate with **16+** peers and leveraged ACM resources in software engineering and open-source projects
- Apply problem-solving techniques and coding proficiency, contributing to a **45% increase** in team collaboration efficiency

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS, C++, SQL
Frameworks: React, Next.js, Node.js, Express.js, Tailwind CSS, Spring Boot, Flask, Django, Bootstrap
Cloud & Databases: AWS, Google Cloud, MySQL, PostgreSQL, MongoDB, Supabase, Vercel
Developer Tools & Skills: Git/GitHub, Bash, Docker, Postman, 3D Modeling/Rendering, Augmented Reality, PyVista, Matplotlib, Selenium, Jest, Figma, Canva, MacOS, Windows, Microsoft Office Suite