

## Bavanan Bramillan

4946 Davis Dr, Doylestown, PA 18902

917-744-2561 | bob.bramillan@gmail.com

[LinkedIn](#) | [GitHub](#) | [Personal Website](#)

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### Technical Skills:

- **Programming:** Python, JavaScript, TypeScript, Swift, SQL, Go, Java, C, VHDL, Bash
  - **Frameworks & Tools:** React, Next.js, Node.js, Pandas, Plotly, Tableau, REST API
  - **Specialties:** Agile Methodologies, CI/CD, Test-Driven Development (TDD), Data Visualization
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### Education:

#### Drexel University – Philadelphia, PA

*B.S. in Electrical and Computer Engineering (Expected June 2027)*

- **Relevant Coursework:** Data Structures/Algorithms, Software Requirements, Linear Algebra, Calculus III, Database Management, Systems Programming, Discrete Maths
  - Gaining real-world experience through Drexel's mandatory co-op/internship program to integrate academic knowledge with professional practice
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### Professional Experience:

#### Software Engineer Fellow

*Headstarter.co – Long Island City, NY (July 2024 – September 2024)*

- Collaborated in development of **web and SaaS products** using React, Next.js, and Node.js
  - Integrated APIs such as **Google Cloud, Stripe, and ElevenLabs**, optimizing real-time performance to reduce latency
  - Scaled applications to support over 1000 active users, enhancing efficiency through **Agile methodologies** and **pair programming**
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#### Beats Data Analyst Extern

*Extern(Paragon One) – Remote (June 2024 – August 2024)*

- Conducted research with the **Consumer Insights team**, performing **sentiment analysis** on Amazon headphone reviews from Beats and competitors
  - Engineered custom API prompts using **Python** to process over 1,000 product reviews each
  - Delivered a **12-part data visualization report** leveraging Pandas, NumPy, Plotly, and TextBlob, which informed marketing strategies and feature improvements
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### Projects:

#### NBA Player Performance Prediction App (Live Demo: [NBA Player Performance App](#))

- Built an interactive application forecasting NBA player performance using a **Random Forest model** with Scikit-learn
- Integrated nba\_api for real-time statistics and created engaging visualizations like **shot charts and spider charts**
- Worked with a team to design a user-centric interface that increased engagement and highlighted key player insights

*More of my Projects are shown in my GitHub*

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