

BHAGAWAT CHAPAGAIN

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EDUCATION

Stevens Institute of Technology

May 2026

BS, Computer Science: *Provost Undergraduate Research Award, Edwin A. Stevens Scholarship, Dean's List*

Relevant Coursework: Data Mining, Database Mgmt, Data Structures, Algorithms, **Agile Methods & Development**, ML/Artificial Intelligence, Programming Languages, **Intermediate Statistics**, **Software Development & Design**

SKILLS

Languages: Python, Java, JavaScript, SQL, C, C++, C#, R, Ocaml

Tools & Frameworks: (Git)Hub, Slack, **Visual Studio**, **Eclipse**, Maven, Kotlin, Gradle, **Springboot**, React, NoSQL, **AWS**, Haskell, PostgreSQL, MySQL, Pandas, Numpy, Matplotlib, Seaborn, Folium, Scikit-Learn, TensorFlow, PyTorch

PROFESSIONAL EXPERIENCE

Stevens Institute of Artificial Intelligence, (Hoboken, NJ): Research Assistant

Current

- Collaborated on crossdisciplinary team to identify neudegenerative disease w/YOLOv8 computer vision models.
- Leveraged caching & func. programming to improve performance (11%) processing thousands of datapoints.
- Awarded Provost Undergraduate Research Fund for groundbreaking ML research in "[Denoising Bioimaging Data](#)"

Ali 2025, (Jersey City, NJ): Fullstack Developer

Current

- Built Node.js backend to integrate NJ voter database, enabling frontend accessibility for 10,000+ user queries.

Options Insurance Company, (Hershey, PA): Backend Developer

Summer 2023

- Leveraged **Selenium** and **Pandas** to reduce manual workload by 67% for 1000+ daily customer communications.
- Engineered Python scripts to parse and process insurance data, improving HQ operational efficiency for 2+ years.

PROJECTS

Data Scientist: Transportation Data Science Project

Spring 2025

- Modeled visualizations by leveraging NYC OpenData Datasets with **Matplotlib** and **Seaborn** for TDSP
- Developed **Folium** heat and severity maps of crashes throughout NYC, emphasizing injury and mortality
- Analyzed patterns between neighborhood diversity and congestion to determine the effect of Mid-20th Century urban planning on displacement of underserved communities in South Bronx, Harlem, and Brooklyn

Software Developer: [Technical Debt IntelliJ Plugin](#)

Fall 2024

- Developed IntelliJ plugin to integrate ChatGPT, Claude and DeepSeek models via API key and Ollama in Kotlin
- Leveraged abstract class to differentiate between local and online requests to LLMs requests and responses.
- Debugged legacy SATDBailiff to extract unique leveraging **JDBC** libraries to manipulate **mySQL** & **SQLite** databases.

AI/ML Developer: [3D Vehicle Object Detection via Computer Vision](#)

Fall 2024

- Implemented a **HashMap** to manage over **390** auto vehicle images for model classifications with **95%+** accuracy
- Created **Deep Learning** computer vision model with **TensorFlow** assessing an average accuracy of **97.20%**

LEADERSHIP & COMMUNITY ENGAGEMENT

Stevens Society for Artificial Intelligence, (Hoboken, NJ): Founder & President

Current

- Established student-led initiative of over 30+ active members to research and develop Artificial Intelligence
- Organized panels and discussions on AI regulation and responsible AI deployment with Northeast Big Data Innovation Hub and Society of Industrial and Applied Mathematics to engage students, faculty and AI/ML professionals.

Columbia University Data Science Institute, (NYC): Transportation Data Science Project Mentor

Current

- Instructed 400+ a/sync students from diverse academic and professional backgrounds in the Transportation Data Science Project (TDSP) to develop real-world analytical models with time series and geospatial comparisons.

Refugee Civic Action Group, (Harrisburg, PA): Web Developer

Current

- Created official website for the Refugee Civic Action Group (RCAG) to promote civic engagement among refugees.
- Collaborated through Git version control to implement HTML, CSS, and JavaScript navigation system.

Stevens Alumni Council (SAC)

Fall 2024

- Cofounded pilot launch of **Student Government Association x Student-Alumni Council** Networking Program. Advocated for early adoption within Stevens community to create a tighter-knit alumnus family.

NJ Educational Opportunity Fund Program Instructor

Summer 2024

- Lead and collaborated with **50+ EOF undergraduate recipients** to innovate computer science and mathematics.