

# Dev Patel

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## EDUCATION

<b>Georgia Institute of Technology</b> <i>B.S. in Computer Science (Intelligence and Information Internetworks)</i> <ul style="list-style-type: none"><li>GPA: 3.41</li><li>Coursework: Data Structures, Linear Algebra, Object-Oriented Programming, and Computer Organization &amp; Program</li></ul>	Atlanta, GA May 2028
<b>Raritan Valley Community College</b> <i>A.S. in Computer Science and Mathematics</i> <ul style="list-style-type: none"><li>GPA: 3.78</li><li>Coursework: Assembly Language, Discrete Math, Multivariable Calculus, Statistics I &amp; II, and Calculus I &amp; II</li></ul>	Branchburg, NJ May 2023 - 2025

## TECHNICAL SKILLS

<b>Languages:</b> Java, Python, C, C++, JavaScript, HTML, CSS, SQL
<b>Frameworks / Libraries:</b> React.js, React Native, Flask, FastAPI, NumPy, OpenCV, MoviePy, Streamlit, ML-Agents, Power BI
<b>Tools &amp; Platforms:</b> Git, Docker, Linux, MongoDB, Nix, PyCharm, Google (ADK), Google Video Intelligence API

## EXPERIENCE

<b>AI Intern</b> <i>Photon Insights</i> <ul style="list-style-type: none"><li>Experimented with AI pipelines leveraging <b>large language models (LLMs)</b>, <b>NLP</b>, and <b>embedding-based search</b> to increase data retrieval accuracy by <b>27%</b> in classification and trend detection across financial and company datasets.</li><li>Translated technical AI outputs, such as <b>entity clustering</b> and <b>real-time risk signals</b>, into product and marketing materials to demonstrate practical business applications of machine learning.</li></ul>	Jul. 2024 – Aug. 2025 West Conshohocken, PA
<b>Machine Learning Intern</b> <i>Fimplex</i> <ul style="list-style-type: none"><li>Leveraged <b>large language models (LLMs)</b> to classify and extract key details from unstructured Indian bank loan documents, deploying with <b>Docker</b> and optimizing performance using <b>Ollama</b> to improve retrieval accuracy and data identification by approximately <b>25%</b>.</li><li>Developed <b>NLP pipelines</b> integrating LLMs to enhance solution efficiency, achieving consistent and reliable results across diverse business and housing loan datasets.</li></ul>	May 2024 – Dec. 2024 North Brunswick, NJ
<b>Research Intern</b> <i>NJIT Bader Research Group, Department of Computer Science</i> <ul style="list-style-type: none"><li>Researched and implemented <b>MC1</b>, <b>MC2</b>, and <b>MC3 (Monte Carlo)</b> algorithms for large-scale <b>spatio-temporal data</b>, integrating <b>DBSCAN</b> for cluster detection and developing methods to track objects across time and space.</li><li>Optimized algorithmic performance using advanced <b>pruning techniques (MC2)</b> and <b>adaptive temporal adjustments (MC3)</b>, improving computational efficiency and scalability.</li></ul>	Jun. 2024 – Aug. 2024 Newark, NJ

## PROJECTS

<b>Dental Scanner — Open Wide</b>   <i>Flask, Python, SQLite, HTML/CSS, Roboflow, Computer Vision</i> <ul style="list-style-type: none"><li>Engineered a full-stack <b>AI-driven web application</b> using <b>Flask</b> and <b>SQLite</b> to automate dental image analysis and diagnostic reporting.</li><li>Applied <b>transfer learning</b> to a pre-trained computer vision model with a custom-annotated dataset built in <b>Roboflow</b>, improving dental feature detection and achieving <b>63.2% accuracy</b> in real-time image interpretation.</li></ul>	Sep. 2025 – Present
<b>Arena Vision</b>   <i>Google ADK, Gemini Vision, OpenCV, NumPy, Streamlit, MoviePy, REST APIs</i> <ul style="list-style-type: none"><li>Engineered an <b>autonomous</b> sports highlight generator using <b>Gemini Vision</b>, <b>Google ADK</b>, and <b>OpenCV</b>, combining video, audio, and semantic analysis to detect and rank key gameplay events.</li><li>Developed a scalable video processing pipeline with <b>Python</b>, <b>Streamlit</b>, <b>MoviePy</b>, while integrating <b>REST APIs</b>, and <b>Twitter's</b> chunked media upload for automated editing and publishing.</li></ul>	Nov. 2025 – Present

## EXTRACURRICULAR ACTIVITIES

<b>HyTech Racing (HyTech @ GT) Software Engineer</b>   <i>C++, Simulink, CAN, VectorNav</i> <ul style="list-style-type: none"><li>Optimized real-time data parsing and recording pipelines in <b>DriveBrain</b>, achieving <b>100% verified integration</b> of <b>VectorNav</b> and <b>SpeedBeam DBC</b> for accurate lap timing during Formula South Invitational testing.</li><li>Developed embedded control software in <b>C++</b> and <b>Simulink</b>, enabling real-time <b>PID tuning</b>, reliable telemetry logging, and robust <b>CAN communication</b> across vehicle subsystems.</li></ul>	Aug. 2025 – Present
<b>Student Organizations</b>   <i>Georgia Institute of Technology</i> <ul style="list-style-type: none"><li>HyTech Racing, Big Data Big Impact, Data Science Club</li></ul>	Aug. 2025 – Present