

# Maksim Pиковskiy

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## Education

### Rochester Institute of Technology

December 2024

*Bachelor of Science in Computer Science, Minor in Entrepreneurship*

*Rochester, NY*

- Achieved Dean's List distinction for all 12 semesters (2020-2024)
- GPA: 3.89/4.00

## Technical Skills

**Programming Languages:** Python, JavaScript, TypeScript, C#, Java, MySQL, PostgreSQL, MongoDB

**Frameworks/Libraries:** React.js, Next.js, Express.js, .NET Core, Open3D, OpenCV, Apache Spark, Vercel, AWS

**Spoken Languages:** English (Fluent), Russian (Native)

## Experience

### Founding Engineer

January 2024 – Present

*Spotlight*

*Rochester, NY*

- Conducted comprehensive market research showing that 64% of Americans report negative effects from social media.
- Led interviews with 100+ potential users to gather insights on desired features, resulting in a prioritized feature roadmap for platform development.
- Collaborating with cross-functional teams, including CEOs, marketers, and designers, to refine and ensure the scalability of a digital platform for artists, and to focus on aligning business and user goals.
- Designing and implementing a full-stack digital platform for artists using Next.js, Python (psycpg), PostgreSQL, and AWS (API Gateway, Lambdas, Cognito, Amplify, and Aurora DSQL), which will enhance authentic content sharing features and ensure scalability to accommodate growing user base.

### Research Assistant

November 2024 – June 2025

*Borough of Manhattan Community College*

*New York, NY*

- Led technical development and mentored BMCC students for a project from an AI Innovation Challenge, architecting both frontend implementation and AI integration strategy.
- Developed responsive frontend application using React.js while collaborating with the BMCC students on Python-based AI API integration for seamless data flow.
- Spearheaded end-to-end product design through Figma wireframes and workflow architecture, ensuring alignment between UI/UX design and AI functionality requirements.

### Software Engineer

August 2024 – December 2024

*Ambiance Style*

*New York, NY*

- Engineered a cross-continental desktop application using .NET MAUI and PostgreSQL, enabling seamless communication between NYC office and international factories for real-time product quotes and order management.
- Implemented elaborate caching system and forward updating mechanism, reducing data fetch times from 15s to 3s and improving application responsiveness by 80% for users.
- Maintained and enhanced company website, showcasing product portfolio and driving client acquisition through improved digital presence.

### Software Engineer

January 2023 – August 2023

*Golisano Institute for Sustainability at RIT*

*Rochester, NY*

- Built a responsive frontend using React.js and a scalable backend with .NET Core for a website analyzing manufacturing data, improving CAD designer efficiency by 30%.
- Researched and integrated a custom business rule engine, streamlining the storage and processing of optimization rules and improving decision-making speed by 15%.
- Designed and modeled data flow architecture to streamline system operations, addressing possible future bottlenecks.
- Authored technical documentation for developers, reducing onboarding time by 50% and improving system understanding across future teams.

## Projects

### Perception Stack | Python, Git, Open3D, NumPy

August 2023 – December 2023

- Designed and implemented a perception stack for autonomous driving vehicles, which uses a set of 3D point clouds, captured from a LiDAR mounted at an intersection. This perception stack extracts 3D points belonging to vehicles and estimates each vehicle's position, bounding box, and motion vector.
- The perception stack achieves an 85% accuracy with an average latency of 0.1 seconds.