

# Parth Vats

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## Software Engineer

### Relevant Experience

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#### Backend Software Engineering Intern

Sep 2023 – Aug 2024

*Perpetua Labs (acquired by Omnicom Media Group)*

Toronto

- Independently developed and deployed clean Django **REST APIs** across multiple low latency microservices, seamlessly integrating with frontend and external APIs and optimizing **PostgreSQL** database interactions
- Owned the delivery of **six** small milestones and led weekly system mapping and breakdown sessions to enhance team understanding and workflow efficiency
- Worked across two **agile** teams in a startup environment and leveraged my technical skills to help build a robust and scalable ad-tech web application that gives AI-powered optimization to **14,000+ businesses**
- Collaborated with engineers and product managers across cross-functional teams to implement two key features projected to increase revenue by **\$4M** within three years
- Actively participated in code reviews, fostering constructive feedback and knowledge sharing

### Education

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#### Honours Bachelor of Science in Computer Science

Sep 2020 – Jun 2025

*University of Toronto*

Toronto

- Enrolled in **Computer Science Specialist** and **Mathematics Minor**
- **Dean's List Scholar** (2021-2022, 2022-2023, 2023-2024)
- Received **Ted Mossman Scholarship** for showing exceptional potential
- Nominated for the **Schulich Leader Scholarship**, valued at \$120,000, for showing outstanding leadership skills

### Relevant Skills

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**Languages and Databases:** Python, PostgreSQL (SQL), Golang, Java, C, JavaScript, HTML/CSS, Assembly

**Frameworks/Libraries:** Django REST Framework (DRF), Django Ninja, React Native, Next.js, Tailwind CSS, Expo

**Software Tools:** Git Version Control (GitHub), Docker, Google Cloud Platform (GCP), Terraform, Amazon Web Services (AWS), Apache Airflow, JupyterLab, CircleCI (CI/CD), DataDog, Visual Studio Code, JetBrains IDE

**Relevant Courses:** Operating Systems, Databases, Software Engineering, Software Design, Software Tools and Systems Programming, Data Structures and Analysis, Algorithm Design, Analysis & Complexity, Probability and Statistics

### Relevant Projects

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#### [Scriptorium](#) (Fullstack Engineer)

*Next.js*

- Built a web platform, in an agile team of 3, enabling users to write, execute, and share multi-language code
- Engineered a robust backend and developed responsive interfaces, ensuring seamless functionality across devices

#### [Thrive App](#) (Lead Backend Engineer)

*Django and React Native*

- Led backend development in an agile team of 7, communicating with business partners and deploying an MVP app to stores
- Designed and implemented maintainable backend Django APIs and databases, ensuring thorough testing before deployment

#### [Monopoly Lite](#) (Backend Developer)

*Java*

- Coordinated with a team of 6, applying SOLID and Clean Architecture design principles for efficient development of the game