

# Dylan Rajan Vig

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## Education

**Cornell University**, College of Engineering, Ithaca, NY

Expected May 2027

Bachelor of Engineering in Computer Science, G.P.A.: 3.6/4.0

Relevant Coursework: Object-Oriented Programming and Data Structures, Discrete Structures, Multivariable Calculus for Engineers, Engineering Applications of Operations Research

## Professional Experience

**One Finance**, New York, NY

*Servicing Software Engineer* | *Functional TypeScript, AWS, Terraform, Retool, MySQL*

Jun 2024-Aug 2024

- Developed a feature for agents to access OTP authentication email data in Databricks via a front-end table, aiding in efficiently resolving customer verification email issues.
- Enhanced the customer service chatbot by building an intent in Amazon Lex to address customer inquiries regarding funds availability, handling approximately 2000 inquiries weekly.
- Utilized LLMs to optimize the Agent Assistant tool, preventing the generation of duplicate Q&A articles by identifying and managing similar customer intents, leading to more accurate and streamlined support for agents.

**Mage Data**, New York, NY

*Software Engineer* | *Python*

May 2024-Aug 2024

- Enhanced the Mage cyber discovery model, used to detect and statically mask sensitive data, by integrating a more accurate and secure categorization and scoring model for identification process.
- Designed a system to categorize sensitive data by identifying 40+ distinct key data categories, using header checks, a custom-built regex labeler, and data profiler labeling for accurate and efficient classification.

**Cornell University Unmanned Air Systems**, Ithaca, NY

*Imaging Systems Software Developer* | *React.js, Spring Boot, PostgreSQL*

Oct 2023-Present

- Spearheaded a log page project to import and store critical data about the plane's camera settings and manually input observations, which are converted into documented records.
- Built APIs to transmit image and target data from the camera system to the ground server and cloud server.
- Constructed a registration and login page for the Communications Portal project with authentication and security.

**Orange Energizing Solutions**, New York, NY

*Client Operations Analyst* | *Excel*

Jun 2022-Sep 2022, Feb 2023-Aug 2023

- Delivered process improvements of the sales and client databases and existing client orders.
- Assisted with inspections and installations of gaskets and researched sustainability programs and company partners.

**NYU Jonathan M. Tisch Center of Hospitality**, New York, NY

*Tourism Market Research Assistant under Professor Anna Abelson*

May 2023-Aug 2023

- Conducted a research project covering the impacts of COVID-19 on overtourism in popular tourist destinations.
- Investigated social, economic, and environmental impacts of overtourism.

**Actasys**, New York, NY

*Mechanical Engineer on the Actuator Development Team*

Jun 2021-Sep 2021

- Manufacture the Actasys patented ActaJet technology, tested jet efficiency, and presented potential improvements.

**TutorLinkNYC** ([tutorlinknyc.com](https://tutorlinknyc.com)), New York, NY

*Co-Founder + Co-President*

Jun 2021-May 2024

- Provide free tutoring in specialized math curriculums and general homework help to disadvantaged students.
- Recruited and managed 150+ high school volunteers to assist 250+ K-8th grade students.

## Projects & Skills

**Project: Tour Guide Optimizer** | *React.js, Spring Boot, PostgreSQL*

- Designed a web application to optimize tour routes, calculating the most time-efficient path between destinations using the backtracking and Held-Karp algorithms, as well as recommending tourist sites to visit based on location.
- Implemented data storage features, enabling users to save and manage their travel routes for future reference.

**Programming Languages:** Java, Python, TypeScript, JavaScript, HTML/CSS, Wolfram

**Technical Skills:** React.js, Redux.js, Spring Boot, PostgreSQL, MySQL, Git, AWS, Terraform, fp-ts