

# Vaishakh Vinod Kumar

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## EDUCATION:

**Purdue University**, West Lafayette, IN

August 2019 – May 2023

Bachelor of Science in Computer Engineering, Minor in Film, Purdue Presidential Scholarship, 3.15 GPA

**Adlai E. Stevenson High School**, Lincolnshire IL

August 2015 – May 2019

Graduated with Highest Honors, National Honor Society, Illinois State Scholar, 4.5 GPA.

## EXPERIENCE:

**Discover Financial Services**

June 2021 – August 2021

*Software Engineering Intern*

- Worked on user stories with teams in Digital Payments in charge of tokenization and JWTs, pushed 50+ critical and blocker bug fixes via Jira.
- Enhanced and fixed the UI on an Angular & Spring Boot based web-app that demoed APIs with Swagger.
- Automated and debugged run configurations for different Digital Payments teams.
- Created a website using React for an internal hackathon, in addition to developing a theme and event plan.

**Microsoft**

August 2020 – May 2021

*Minecraft DataMine Team*

- Worked with the Minecraft team collecting online data to identify social media trends.
- Worked with R and packages like ggplot to visualize data scraped from Twitter and Reddit.

**Illinois Institute of Technology**

May 2018 - August 2018

*Data Science Research Intern*

- Produced the training data, classifying and correcting hundreds of Transmission Electron Microscopy images.
- Programmed two neural network systems in Python to identify the chemical composition of the microscopy images and identify images that were deficient.
- Introduced to both Convolutional and Residual type neural networks.
- Created a poster for a large event showcasing our project. Presented to research professionals and students.

**Purdue EPICS – AAEE**

August 2019 – May 2020

*Project Liaison and Communications Officer*

- Assisted in rebuilding circuitry and programming the Arduino GUI system for a Wind Tunnel exhibit.
- Communicated with client about necessary modifications to allow for durability and safe use by kids.
- Integrated safety switches, a locking mechanism for the Wind Tunnel door, and a team website that is still in use.

**Purdue Space Program**

August 2019 – May 2021

*Liquids - Avionics Team Member*

- Liquid Rocket Team Member working on testing procedures (vibration, thermal) for the avionics bay.
- Previously Solid Rocket Team, working on structures, CAD modelling of the nose of our solid propellant rocket.
- Previously SSPI Team Member working on satellite report concerning space debris and potential solutions.

## RELEVANT SKILLS:

**Programming:** Python, C, Assembly, Java, HTML/CSS, JavaScript, R, SQL

**Frameworks/Libraries/Tools:** Node.js, Angular, React, Ajax, Git, Selenium

**Other Software:** CATIA, SOLIDWORKS, Autodesk Inventor, MATLAB, Excel

**ADDITIONAL INVOLVEMENTS:** Stand-Up Comedy, Purdue Outing Club, Intramural Referee, IM Soccer, TEAMS National Engineering Contest (Captain SHS Team), SHS Physics Club (President).

