

# Dhananjayan Pallavur Naduvakkat

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## EDUCATION

**University of Wisconsin-Madison** | Madison, WI

September 2020 - May 2024

Bachelor of Science in Computer Science & Data Science | GPA: 3.76/4.0

- Minor in Entrepreneurship
- Dual Honors Program, Dean's List: Fall 2023, Spring 2022, Spring 2021

## EXPERIENCE

**UW-Madison Cryo-EM Research Center** | Madison, WI

October 2022 - Present

Software Developer | Part-Time

- Piloted a user interface refresh on an existing Django application for a more intuitive user experience
- Designed and developed a React and Django web application to process microscope image outputs

**Amazon** | Seattle, WA

June 2023 - August 2023

Software Development Engineer Intern | Merch on Demand

- Developed and deployed a self-service tool to allow the business team to perform tasks on retail products
- Reduced tech effort by 80% and helped the team eliminate ~10 high-priority action items every month
- Designed and engineered an AWS Lambda to perform asynchronous tasks on retail products

**Northwestern Mutual** | New York, NY

June 2022 - August 2022

Software Engineer Intern

- Engineered a Lambda function to monitor IP address availability in AWS VPC Subnets, reducing crashes by 20%
- Assisted over 10 teams in implementing GitLab CI/CD pipelines as a trained and certified DevOps Practitioner
- Developed and deployed a React app for the company to improve financial literacy in young adults

**Demic LLC** | Madison, WI

April 2021 - April 2022

Full Stack Developer | Part-Time

- Developed a cross-platform mobile application with React Native to connect with classmates at UW-Madison
- Implemented accessibility features and CI/CD pipelines
- Harnessed the power of social media to onboard over 1000 users

**UW-Madison People & Robots Lab** | Madison, WI

May 2021 - December 2021

Student Developer, Undergraduate Research Assistant | Part-Time

- Developed 3 Chrome extensions to aid Traumatic Brain Injury patients in using social media
- Deployed an API on AWS for handling requests from the extension
- Engineered an Android app to record & analyze Alexa conversations

## PROJECTS

- **[Office Hours Waiting List](#)**: A platform to enhance how office hours are conducted, used by 500+ students & instructors at UW-Madison
- **[MusicRoom](#)**: A Django & React platform to control music on Spotify with others in a room
- **[Demic](#)**: A platform used by 1000+ students to find and form connections with their classmates
- **[AutoDust](#)**: Machine Learning program written in Python designed to detect the type of waste and segregate it accordingly.

## LEADERSHIP & AWARDS

- Represented India at the Y4PT Global Hackathon, held in Sweden
- 1st Place at IBM-sponsored Hackathon
- Selected Trainee for the CMS Collaboration at CERN in Geneva, Switzerland

## PUBLICATIONS

[Matthew R Larson, Yan Zhuang, Djay Pallavur Naduvakkat, Jae Yang, Bryan Sibert, Elizabeth R Wright, TomoFlows: Pre-Processing Workflows For Cryo-Electron Tomography, Microscopy and Microanalysis, Volume 29, Issue Supplement\\_1, 1 August 2023, Pages 724–725](#)

## SKILLS

**Languages & Frameworks:** Python, JavaScript, Java, C, C++, Dart, React.js, Angular, Node.js, Express, Django, Flask

**Tools:** Git, Heroku, MongoDB, MySQL, PostgreSQL, AWS, GCP, REST API, Terraform, Docker, Kubernetes