

# Vani Ramesh

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## Education

**University of Illinois at Urbana-Champaign** Expected May 2026  
*Bachelor of Science in Computer Science (GPA: 4.0)* Urbana, IL  
• **Relevant Coursework:** Probability & Statistics for Machine Learning, Data Structures and Algorithms, Discrete Math

## Technical Skills

**Languages:** C++, Python, Java, Javascript, Typescript, Dart, HTML/CSS, Verilog  
**Technologies:** PostgreSQL, React.js, Node.js, Next.js, Docker, MySQL, MongoDB, TensorFlow, Docker, Agile, Azure, AWS, Grafana, Linux, Power BI, Tableau, Django, Flutter, Firebase, Git, Alteryx, REST APIs

## Experience

**Ensaras** July 2024 – Sept 2024  
*Machine Learning Intern* Urbana, IL  
• Implemented robust **anomaly detection** algorithms and integrated with a **CI/CD pipeline using GitLab**, achieving a 20% reduction in response time to critical issues  
• Developed and maintained interactive Grafana dashboards for **real-time monitoring and visualization** of wastewater metrics, drastically improving plant **efficiency and sustainability**  
• Created and integrated a **React** dashboard and **Django API** into the existing codebase, enhancing data accessibility

**California ISO** May 2024 – July 2024  
*Software Engineering Intern* Folsom, CA  
• Developed versatile script using **Python** and **AVEVA PI Web API** to identify and troubleshoot missing data tags, enhancing data integrity and reliability across **55,000+ entries**  
• Streamlined validation and troubleshooting by processing **large datasets**, generating **comprehensive logs**, and enabling efficient analysis, reducing error detection time by **40%**

**Versogen** June 2023 - Present  
*Software Engineer Intern* Wilmington, DE  
• Used **PowerBI** to plot global statistic data and performance indicators, converting raw data into actionable insights  
• Automated **data analysis** and **visualization** for electrochemical experiments using matplotlib and numpy  
• Collaborated with management to set up scalable on-prem **SQL** database, organizing **1000s** of files of R&D data  
• Utilized **React** and **Node.js** to design, develop and maintain a **full-stack**, responsive admin dashboard, integrating **Azure AD** single sign-on

## Leadership/Extracurriculars

**Natra** May 2022 – Present  
*Founder/App Developer* Naperville, IL  
• Designed and developed iOS and Android sustainability app with **1100+** users using Flutter framework  
• Helped users save **2000+** kg CO<sub>2</sub> emissions, **300,000+** gallons of water, **1,800+** kg solid waste  
• Developed and integrated **RESTful APIs** to retrieve and display real-time environmental data and statistics  
• Implemented secure user authentication system, providing personalized experiences based on user permissions

**Environmental Sustainability Taskforce** June 2021 - Present  
*Engagement Leader* Naperville, IL  
• Presented to school board officials, **Congresswoman Lauren Underwood**, and local businesses regarding implementing sustainability  
• Conducted **extensive research** to create targeted, achievable goals regarding carbon emissions and energy usage in schools and businesses

**Disruption Lab @ Gies** Aug 2023 – Present  
*Tech Lead* Urbana, IL  
• Led an 8-member team to **design, develop, and deploy** a comprehensive project for our clients  
• Developed an AI-powered database to enhance search accuracy, leveraging **LangChain** and **NLTK**  
• Partnered with client to align technical solutions with **business objectives**, using strong communication and leadership