

Vinayak Gajjewar

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RESEARCH STATEMENT	I am interested in the intersection of IoT, distributed systems, and scalable spatial analytics. Specifically, I want to bring geospatial and spatio-temporal applications to resource-constrained computing environments in a scalable and fault-tolerant manner.	
EDUCATION	<i>Bachelor of Science</i> , Computer Science University of California, Riverside, <i>Graduated June 2023</i> Concentration: Computer Science	
SKILLS	Unix/Linux, Python, Django, C, C++, Docker, Git, Java, Scala, Maven, Spark, Hadoop, Node.js, JavaScript, TypeScript, MongoDB	
PUBLICATIONS	Singla, Samriddhi, Ayan Mukhopadhyay, Michael Wilbur, Tina Diao, Vinayak Gajjewar, Ahmed Eldawy, Mykel Kochenderfer, Ross Shachter, and Abhishek Dubey. "Wildfiredb: An open-source dataset connecting wildfire occurrence with relevant determinants." In NeurIPS Thirty-fifth Annual Conference on Neural Information Processing Systems. 2021.	
EXPERIENCE	<i>Software Products Intern</i>	Summer 2024
	Esri Inc., Redlands, CA <ul style="list-style-type: none">Used TypeScript, CloudFormation, and Electron to develop an application for deploying ArcGIS Enterprise to AWS.	
	<i>Undergraduate Researcher</i>	Summer 2023
	UC Riverside Big-Data Lab, Riverside, CA <ul style="list-style-type: none">Contributed to the development of Raptor, a Raster + Vector query processing engine written in Java and Spark for manipulating and visualizing geospatial data.	
	<i>Software Products Intern</i>	Summer 2022
	Esri Inc., Redlands, CA <ul style="list-style-type: none">Used Node.js to write a framework for connecting remote data sources (e.g., databases, APIs) to the Esri software ecosystem.Wrote technical documentation and code samples for new features of ArcGIS Enterprise.	
	<i>Research Fellow</i>	May 2021 - May 2022
	Digital Agriculture Fellowship, Riverside, CA <ul style="list-style-type: none">Used Maven and Apache Spark to build a scalable analytics system that uses satellite data to compute wildfire spread, resulting in a 2 order of magnitude performance increase over the state of the art.	
	<i>Instructor</i>	Summer 2020
	iD Tech Camps, Santa Clara, CA	

- Tutored 50+ K-5 children on various topics in computer science, from basic programming concepts to video game development.

Computer Science Intern

Summer 2018

SchoolCity Inc., Santa Clara, CA

- Developed a data analytics application that extrapolates patterns in SchoolCity product usage across school districts using MongoDB and Express.js.

TALKS

2023 — Implementing a Distributed Evapotranspiration Model. (2023). 2023 UCR Undergraduate Research & Creative Activities Symposium. Riverside, CA.
2021 — Increasing the Efficiency of Geospatial Data Processing. (2021). Research in Science & Engineering Symposium. Riverside, CA.

AWARDS & HONORS

2023 — ASA, CSSA, SSSA Outstanding Senior (19 seniors recognized nationally)
2021 — Digital Agriculture Fellowship (Artificial Intelligence for Sustainable Agriculture)

SELECTED PRESS

Ober, Holly. (December 8, 2021.) Wildfire dataset could help firefighters save lives and property. UCR News Archive. <https://news.ucr.edu/articles/2021/12/08/wildfire-dataset-could-help-firefighters-save-lives-and-property>