

# VASUDHA KHANNA

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## EDUCATION

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

[ GPA: 3.87 ] [ May '25 ]

Bachelor of Science, Major: Computer Science

## SKILLS AND LANGUAGES

**Related Courses:** Web Designing (HTML, CSS, JavaScript, Bootstrap), Java programming, Ethical Hacking - Mobile Platforms and Network Architecture, Python for Machine learning

**Computer-** Java, Python, HTML, CSS, JavaScript, Bootstrap, PHP, SQL, Flutter, KQL, C#, Python Web APIs, Bash, .NET

**Interests-** Dancing, Writing, Debating, Public Speaking

**Languages-** English, Hindi, and Punjabi

## EXPERIENCES

**Department of Integrative Biology UW-Madison – Software Developer**

**Oct '21 – Present**

- Simulated Genetic Sweeps by implementing Python libraries to study course of mutation vs baseline genomes.
- Analyzed and tested simulated data leveraging Campus Cluster Computing Resources and GPUs.
- Implementing machine learning models to predict types of sweeps and studying their effects.

**FinThrive – Software Engineering intern**

**Jun '22 – Aug '22**

- Documented 30 apps undergoing SQL Migration improving productivity and accessibility for over 100 employees.
- Performed regression testing for 20 products and resolved bugs due to migration.
- Improved functionality to products by adding User Interface and dashboards for easy access using C#.
- Resolved authorization issue working with 10 members of authorization team (AAA) to remove login errors for the entire company as it under when rebranding.
- Saved resources of the company by leveraging manpower to AAA than changing the code for 40 products.

**Digi-TIES Pvt. Ltd. – Project Intern**

**Feb '20 – Oct '20**

- Engineered an automated expense management software with facilitation of 10 engineers learning PHP on job.
- Developed website and upgraded existing application, increasing efficiency reduced number of clicks by 30%

**Aashman Foundation - Fund Raising Intern**

**Jun '21 – Aug '21**

- Awarded with 5-star certification under “Milk Bank Campaign” for raising funds for poor single income families.
- Initiated social media campaigns and raised cash worth \$5000, food items to help 500 single income families.

**Chintan Research and Action Group – Intern Teacher**

**Jul '20 – Sep '20**

- Mentored and led 50 kids of families below poverty line to teach commercial photography and videography using smartphones under the “No Child in Trash” program.
- Boosted their earnings by 30% through the second income and motivated them to keep up morale.

## PROJECTS AND HONORS

• **Crib – Start-up – Team Member**

Developing a sub-leasing app API as a part of an on-campus start.

• **AutoML Decathlon '22 UW-Madison Runner-Up**

Automating the process of machine learning model selection by separating data types and retrieving accuracy score achieved by different models and implementing the best fit model.

• **Ungerrymander – 3<sup>rd</sup> Position & Best Presentation Datathon '21**

Interactive Python API built in 24 hrs to “ungerrymander” and redefine state boundaries to make the election process fairer through even voters.

• **ThinkOutLoud Journaling App – Google Funded - CodeForGood – Team Member**

Designed an audio video journaling app using Flutter to make ADHD sufferers and introverts feel heard.

• **Excellence Award – RIO+24 war and peace conference by UN.**

• **International Bronze Medal – SOF NSO '20 - '21 & Bronze Medal – IMO SOF '20 – '21**

• **Published Science Fiction Author – “The Amazing Five”, awarded as one of the youngest published authors with 10000 copies globally sold.**

## CAMPUS POSITIONS

• **.Data Club – President** Spearheading competitions, professional and academic events

**Jan '22 – Present**

• **CDIS Undergraduate Computing Council – Founding Member** build CDIS campus community

**Mar '22 – Present**

• **The Dish Wisconsin – Writer** campus food magazine with over 10000 readers

**Sep '21 – Present**

• **FRN UW-Madison – Executive Board Member** Recover and distribute food to needy

**Jan '22 – Sep '22**