VASUDHA KHANNA

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EDUCATION

University of Wisconsin-Madison | Madison, WI   [GPA: 3.9] [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, Team Management   **Languages**- English, Hindi, and Punjabi

EXPERIENCES

FinThrive – *Software Developer (Promoted)*   ***Oct* '23 – Present**
- Secured 5 applications by removing high score vulnerabilities scanned by **Checkmarx** and coordinated data and
- Validated over 176 URLs to perform HL7 testing using **SoapUI**. Following up with automation testing.

Department of Integrative Biology UW-Madison – *Research Developer*   **Oct '21 – Sept'23**
- Simulated Genetic Sweeps by implementing Python libraries to study courses of mutation vs baseline genomes.
- Tested simulated data and implemented machine learning models to predict types of sweeps, leveraging Campus **Cluster Computing Resources and GPUs**.
- Using deep learning feed forward neural network to predict natural selection variables using generational data with **Pytorch & sckilearn** to identify underlying statistic relations between parameters.

FinThrive – *Software Developer Intern*   **Jun '22 – Aug '22, Jun'23 – Sep'23**
- Generated **10** Static and Dynamic letters with **HTML Templates, C#, Postman API** validations to replace legacy Crystal Service software with robust LetterService exceeding expectations and pushing to production **4 weeks early** used by over **3000 healthcare providers** getting a part-time offer.
- Collaborated on **Azure Cloud Migration** tasks post peak IPS planning during extended internship period.
- 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 members of authorization team (AAA) to remove login errors for the entire company as it under when rebranding.

Crib the Subleasing app – Start-up – Backend Developer   **Oct '22 – Present**
- Developing the API **using Node.js** and **MongoDB** for database and **Heroku** deployment.
- Working on web-app using **React** for streamlined usage for over **1000 users**.

GUTS – *Math Tutor*   **Sep '22 – Present**
- Motivated and tutored a group of **10** individuals to understand and grasp calculus concepts boosting their GPAs.
- Created a course to help tutees learn, practice, and test their knowledge through the semester.

Digi-TIES Pvt. Ltd.– *Project Intern*   **Feb '20 – Oct '20**
- Engineered 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%**

PROJECTS AND HONORS

- **AutoML Decathelon '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.
- **Ungerrymanderer – 3rd Position & Best Presentation Datathon '21**
  Interactive Python API built in 24 hrs to "ungerrymander" and redefine state boundaries to make the election process fairer even through 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.
- **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**