

# Ishan Bansal

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## SUMMARY

Passionate and disciplined engineer with strong expertise in designing, developing, and debugging software. Possessing excellent communication and problem-solving skills, I thrive in cross-functional teams and multitasking. Proven record of completing 25+ projects and resolving 15+ customer escalations.

## SKILLS

**Hard Skills:** Scala, Python, Go-Lang, Ansible, Java, C, C++, Bash Scripting, Batch Scripting, Perl, JavaScript, SQL, MongoDB, Verilog, HTML, CSS  
**Technologies:** Hybrid Cloud, Virtualization, Automation, Database Management, Machine Learning, Quality Assurance, Spring Boot, API Development  
**Software:** MATLAB, MS Office Apps, Linux Operating System, Docker, Kubernetes, Git, Jira, Confluence, Software Development Life Cycle  
**Soft Skills:** Active Learner, Cross Functional Collaboration, Leadership, Multitasking, Prioritization, Ownership, Perseverance, Teamwork

## EDUCATION

<b>Master of Science in Electrical and Computer Engineering</b> University of California San Diego • Specialization in Computer Engineering	<b>September 2023 - Present</b> San Diego, United States
<b>Bachelor of Engineering in Electronics and Communication Engineering</b> Birla Institute of Technology and Science, Pilani • Minor in Finance	<b>August 2016 - June 2020</b> Hyderabad, India

## RESEARCH PROJECT

<b>Development of Batteryless and Wireless Sensing Platform (Provisional Patent Submitted)</b> <b>Wireless Communications, Sensing and Networks Group</b>	<b>April 2024 - Present</b> UC San Diego, United States
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- Developed the software for interfacing an RFID reader and capturing the hopping radio frequency signal information at a very high rate.
- Developed the algorithm for resolving signal parameters with **minimal latency** for computing the stimuli using signal processing techniques.
- Able to sense stimuli like **force, soil moisture and luminosity** in **real-time** with over **95% accuracy** using cost-effective commercial sensors and RFIDs.
- Able to **improve throughput by 1000%** reducing the **sensory resolution time by 95%** enabling **multi-sensor platforms** and **sub-second sensing**.
- Exploring deep learning algorithms like **Recurrent Neural Networks** in-order to enable applications like **GAIT analysis** that require **sub-second sensing**.
- Publication **accepted** at the revered **ACM Embedded Networked Sensor Systems** for 2024. Demonstration manuscript **accepted** at **ACM MobiCom** for 2024.

## EXPERIENCE

<b>Sr. Software Developer</b> <b>Cisco Systems</b>	<b>September 2020 - July 2023</b> Bangalore, India
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- Developed software for **install and upgrade** for HyperFlex, a cloud infrastructure management service, achieving a **reduction of 22% in upgrade time**.
- High performer with a **93% bug closure rate** and **less than 3% return rate** resulting in a **reduction of 70% in incoming bugs** in upgrade software.
- Very high feature integration pace with **97% of the projects completed** well within the proposed ETA, **improving time-to-market by 25%**.
- Handled over **15 major customer escalations** across various geographies with a **100% closure rate** and an **exemplary customer satisfaction**.
- Recognized with the esteemed **"Employee of the Quarter"** award in FY2021 for exceptional contributions to new feature development.

## INTERNSHIPS

<b>Summer Intern</b> <b>Peco Pallet Inc</b>	<b>June 2024 - September 2024</b> New York, United States
<b>Engineering Intern</b> <b>Cisco Systems</b>	<b>January 2020 - June 2020</b> Bangalore, India

- Implemented custom pipeline for **data cleaning, geocoding, and reporting** using **Python and Excel** for managing large corporate data.
- Engineered a **one-click solution** for **analyzing** extensive datasets and generating **customized reports** to **estimate optimal pricing** strategies.
- Built the entire application in-house **improving data quality** and **saving over 70% of the work hours** spent in data management.
- Enhances the pricing process and **expedites the delivery of pricing by 40%** increasing the **probability of conversion by 25%**.

- Developed automation tools for **managing test scripts and test statistics** for Intersight, a cloud operated infrastructure management platform.
- Built a tool integrated into the CI/CD pipeline for test script review which helped save **100 work hours** spent in code review every week.
- Deployed a **web application** which served to track the verification activities of **100s of microservices** deployed.
- Implemented an automated solution to **identify security vulnerabilities** and **user-experience flaws** saving **50 work hours** every week.
- Created a **Webex chatbot** for real-time reporting of all ongoing and past testing activities reducing time spent in data retrieval by **10 hours a week**.

## COURSEWORK

Algorithms, Cloud Computing, Computer Architecture, Computer Networks, Database Management, Data Structures, Digital Signal Processing, Machine Learning, Object Oriented Programming, Operating Systems, Parallel Computing, Recommender Systems, Software Engineering, VLSI System Design

## CERTIFICATIONS

- Deep Learning Specialization<sup>[1]</sup>, Coursera
- AWS Fundamentals Specialization<sup>[3]</sup>, Coursera
- TensorFlow in Practice Specialization<sup>[2]</sup>, Coursera
- Machine Learning A-Z™: AI, Python & R<sup>[4]</sup>, Udemy