

Aunsh Bandivadekar

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SUMMARY

A graduate student at UC Davis with two years of software development experience seeking a software engineering internship to utilise academic knowledge in industry settings and obtain hands-on experience on impactful engineering projects.

EDUCATION

University of California, Davis (UC Davis) | *Master of Science in Electrical and Computer Engineering* Sept '23 – May '25

University of Pune, India | *Bachelor of Engineering in Electronics and Telecommunications* Jun '16 – May '20

- *Coursework:* Software Engineering, Advanced Computer Architecture, Distributed Database Systems, Object-Oriented Programming, Artificial Intelligence, Machine Learning, Systems Programming
- *Accolades:* Top 10 of my undergraduate class in all years & first in the junior year. Coordinator of the college student council.

RESEARCH

Exploratory Systems Lab | *Research Assistant & Developer* | UC Davis Jan '24 - Present

- Working at the Exploratory Systems Lab under the guidance of Prof. Mohammad Sadoghi on the NexRes platform based on the ResilientDB blockchain fabric.
- Developing ResView, a novel visualizer application using React and d3.js to simulate the Practical Byzantine Fault Tolerance (PBFT) consensus protocol and provide graphical representations of the protocol's workings.

Department of Electronics & Telecommunication | *Student Researcher* | SCOE Jun '19 - May '20

- Developed a novel dual-band band-pass filter for 5G Wifi applications working for Prof. Ganesh Gaikwad and in collaboration with the Defense Institute of Advanced Technology, Government of India

WORK EXPERIENCE

Prosperix.com | *Software Development Engineer* | Remote Mar '23 - Aug '23

- Collaborated with an international team of developers to develop two key in-app modules as part of the product & development team for the company's brand cut-over project.
- Focused on implementing robust UI/UX using ReactJS, CSS, Tailwind, and Git. Designed fast and reliable APIs using GraphQL queries and enabled agile software development using CI-CD techniques, which significantly reduced data overhead.

Dr SB's Vet Services | *Fullstack Developer* | India Jan '22 - Jan '23

- Developed and worked on the internal company appointment and billing application, implementing authentication via Google OAuth and created customer check-in/reminder functionality.
- Implemented RESTful Analytics' APIs, created the database schema using PostgreSQL, and reduced report generation times significantly by working on a custom web automation package.

2WheelR | *Business Analyst* | India Jan '21 - Dec '22

- Developed and set up business processes to collect and collate data to later analyse the generated actionable insights resulting in increased revenue and margin.
- Designed a dashboard by selecting relevant KPIs, which was implemented as part of the digital transformation effort.

TECHNICAL SKILLS

Programming Languages: Typescript, Python, Java, SQL, C++, JavaScript

Development & Others: React.js, Node.js, Express, CSS, MySQL, MongoDB, Postman, REST, Git, Maven, PyTorch

PROJECTS

ResView: A PBFT visualizer based on the ResilientDb blockchain fabric  UC Davis, Sept '23 - Present

- Developed & implemented "ResView", a graphical visualizer based on the ResilientDB blockchain fabric for viewing the Practical Byzantine Fault Tolerance consensus protocol through interactive graphs demonstrating replica interactions during transaction execution and consensus building.

A Novel Design for Dual-Wide-band Band-pass Filter for WLAN and WiFi Applications  UoP, Jun '19 - May '20

- Designed a compact, second-order dual-band band-pass filter using half-wavelength stepped impedance resonators to achieve two pass-bands centred at 2.45 GHz and 5.45 GHz covering Wi-Fi/WLAN frequencies. Employed ground slots below the coupled lines between resonators to increase coupling,

HONORS, AWARDS & LEADERSHIP

Graduate Teaching Assistant

- Working as TA for Prof. Sophia Mattingly for EDU at the School of Education Winter '24
- Previously worked as TA for Prof. Elizabeth Marley for DES 135A at the Department of Design Fall '23

Best Paper, International Conference on Pervasive Computing Mar '20

INSPIRE Scholarship, Awarded by the Government of India for exceptional performance in junior college worth INR400k May '16