Ph: +1 (408) 791-9757
Location: Santa Cruz, California
Email: nbhatia3@ucsc.edu

Nayan Bhatia

GitHub: nayanbhatia311
Website: nayanbhatia.com
LinkedIn: nayan-bhatia

EDUCATION

University of California, Santa Cruz	**Sep 2021 - Jun 2027 (Exp)**
PhD in Computer Science and Engineering (CSE)	GPA: 3.52/4.00
K. J. Somaiya Institute of Engineering and IT, University of Mumbai	**Aug 2017 - Jun 2021**
Bachelor of Engineering in Computer Engineering	CGPA: 8.26/10.00

TECHNICAL SKILLS

Programming languages	Python, SQL, C, C++, Java, Scala, Solidity.
Tools and Databases	Cypress, Selenium Kubernetes, Jenkins, Docker, Jest, MySQL, MongoDB, Github Actions, AWS KMS.
Web Technologies	Node.js, React.js, Express.js, GraphQL, PHP, Javascript, HTML, jQuery, D3, Vue.js, Angular.js.
Python libraries	TensorFlow, PyTorch, Keras, NumPy, Pandas, Matplotlib, Flask, OpenCV.

TECHNICAL EXPERIENCE

Web Developer and DevOps — **Oct 2021 - Present**
CASFS, UCSC — *Santa Cruz, California*
- Managed an SQL database, implemented an efficient Continuous Integration/Continuous Deployment (CI/CD) pipeline, and created and maintained more than 100 REST HTTP endpoints using **Pytest-Python**, **Jest**, and **Selenium** for automated testing.
- Leveraged **Google OAuth2** to integrate the authentication with **VueJS** and **Flask**, resulting in a seamless user experience for approximately **3,00,000** students across all **10 UC campuses**.
- Implemented scalable infrastructure using **Apache HTTP Server** and **Gunicorn** on **CentOS** to accommodate the high traffic demands of the UC BASIC NEEDS website, resulting in a **30%** increase in website capacity.

Teaching Assistant — **Jan 2022 - Jun 2023**
CSE, UCSC — *Santa Cruz, California*
- Taught Introduction to Scientific Computing (ASTR 119), Internet of Things (CSE 157), Programming Abstractions: Python (CSE 30-01), Beginning Programming in Python (CSE 20-01), Principles of Computer Systems Design (CSE 130-01), Systems and C programming (CSE 13S-02) consistently receiving positive feedback on evaluations.

Software Developer — **Apr 2020 - Jul 2020**
Primary Health Centre Piliv, Under Zilla Parishad — *Solapur, India*
- Elevated company productivity by deploying an Admin Analytics Dashboard on **AWS EC2** (Ubuntu) utilizing the MongoDB, Express.js, React, Node.js (**MERN**) stack and **GraphQL HTTP** endpoint, reducing the need to manually write multiple REST endpoints, saving significant time and effort.
- Resulted in a **50%** increase in data-driven decision-making by **500** employees and reduced latency by **300%** using GraphQL compared to traditional REST endpoints, measured employing **Google Lighthouse**.

TECHNICAL PROJECTS

NFT-Powered Resume Verification [Project Link] — **Jul 2023 - Aug 2023**
- Pioneered a blockchain-based solution using smart contracts to verify resume authenticity with NFTs, addressing the challenge of fraudulent resume submissions and boosting recruitment integrity.
- Integrated Ethereum, Flask, React.js, and web3 API, leading to a **45%** improvement in ATS resume ranking efficiency.
- **Winner** of Descope Challenge 2 at DeveloperWeek **CloudX 2023 Hackathon** amidst a competitive field of over **300** participants.

Automation Society Security Task [Abstract and Presentation Link] — **Sep 2020 - Feb 2021**
- Integrated an automation system for gathering the identity of the visitors with timestamp and temperature checks.
- Demonstrated the **Gait Recognition Model** formulated by **OpenPose** and **KNN** and measured temperature by **MLX 90614**.

Measure Visual Acuity for Non-Medical Workers [Video Link] [Paper Link] — **Sep 2019 - Feb 2020**
- Devised an innovative digital platform to measure visual acuity, integrating a REST API with a MongoDB database. This solution empowered non-medical workers, **serving hundreds**, to obtain accurate readings without traditional equipment.
- Strategically led the team to clinch **victory** amidst **348** competing teams, showcasing leadership, and solution-driven approach.

PERSONAL ACCOMPLISHMENTS

Chairperson, IoT Cell, KJSIEIT — **Jun 2020 - May 2021**
Orchestrated and executed multiple seminars and events, driving engagement for over 100 students and fostering a thriving tech community within the campus.

ML Developer, AI Hackathon 2019 , Centre for Development of Advanced Computing (CDAC) — **Jul 2019 - Sep 2019**
Secured a position among the top 12 teams in a competitive field of 250 nationwide teams, underlining our expertise in AI.

Backend Developer, Smart India Hackathon Software Edition,2019, Team Random-6 — **Jan 2019 - Mar 2019**
Played a pivotal role in securing a win among 52,000 entries, emphasizing collaborative innovation and technical prowess by solving the problem statement "Finding the nearest Parking Lot in vicinity"