

Atish Panday

Hayward, CA, USA

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Personal Profile

A student of Statistics, specializing in C++, Javascript and Python Programming, having 2 years of experience as a software engineer working in various fields from frontend development to backend development, database management, as well as DevOps. Accomplished researcher in the field of machine learning and complex systems, IITian with a masters in Physics.

Work Experience

California State University, East Bay

Hayward, CA, USA

SCAA Tutor

Jan 2023 - May 2023

- Conducted tutoring sessions in Physics, Mathematics, and Computing for students.
- Facilitated online classes to ensure a comprehensive understanding of subject matter and improved academic performance.
- Skills:** Physics, Mathematics, Computer Science

Wisestep

Hyderabad, India

Full Stack Engineer

Oct 2021 - Aug 2022

- Implemented test-driven development for microservices APIs, enhancing efficiency by 20% and reducing API errors by 15%.
- Spearheaded the migration of legacy front-end code to React.js, boosting website performance and increasing user engagement by 30%.
- Ensured consistent and high-quality user experience in collaboration with UI/UX designers, resulting in a 25% decrease in user complaints and a 15% increase in customer satisfaction.
- Developed modular and intuitive user interfaces, aligning with the evolution of the Design System for efficient web application development.
- Translated product design and wireframes into code, emphasizing performance and usability while contributing to the foundational blocks of the Design System.
- Skills:** Java, Typescript/Javascript, Elasticsearch, Kafka, PostgreSQL, Docker, Linux, React.js, Spring Boot, Spring MVC, Mockito, Redux, AWS.

Daffodil Health

Hyderabad, India

Full Stack Engineer (Lead)

Oct 2020 - Oct 2021

- Developed and led a team of 5 developers in the successful creation and launch of a front-end mobile app using React Native, Ionic React, and Capacitor, resulting in a 30% increase in user engagement within the first month.
- Implemented high-performance back-end code using Node.js, resulting in an average response time of less than 100 milliseconds and handling over 10,000 concurrent requests per minute.
- Designed an efficient database architecture using PostgreSQL that allowed for seamless data storage and retrieval, reducing query response time by 50% and improving overall app performance.
- Skills:** Javascript, React.js, React Native, Ionic, Capacitor, Node.js, Spring Boot, Java, Google Appengine, AWS, PostgreSQL, Express.js.

Education

California State University, East Bay

Hayward, CA, USA

MS in Statistics - Data Science

Aug 2022 - Current

- Working as a SCAA Tutor
- Relevant Courses:** Deep Learning, Statistical Theory, Analysis of Variance Models, Statistical Learning, Natural Language Processing

Indian Institute of Technology, Indore

Indore, India

MSc in Physics

Jul 2019 - Jun 2021

- Published a paper on machine learning techniques applied to complex system analyses
- Relevant Courses:** C++, Pattern Recognition, Complex Systems, Machine Learning, Computer Simulations

Birla Institute of Technology, Mesra

Ranchi, India

BSc in Physics

Jul 2016 - Jun 2019

- First Class with Distinction
- Relevant Courses:** Unix and C Programming, Java, Data Structures and Algorithms, CAD, LABView

Skills

Technical Skills

Node.js, Front-End Development, Back-End Web Development, Software Development, JavaScript, Typescript, Redux.js, Web Application Development, Database Integration, Web Application Architecture, Design Patterns, Testing Methodologies, RESTful APIs, Microservices, GIT, Agile Methodologies, Cloud-Based Architecture, Cloud Deployment, Hybrid Development, HTML, CSS, React.js, Angular, Vue.js, Responsive Design, Web Performance Optimization, UI/UX Design, Browser Developer Tools

Soft Skills

Fast Learner, Effective Communication, Problem-solving, Adaptability, Time Management, Critical Thinking, Perfectionist, Creativity, Commitment to Continuous Learning

Projects

Codenames App California State University, East Bay <ul style="list-style-type: none">Implemented the famous board game Codenames on a web app using React.js, MUI and Flask.Used NLP and DETECT (Ref.) algorithms to generate clues for the words used in Codenames.Skills: React.js, react-spring, Material UI, Typescript, HTML, CSS, Flask, NLTK, Fasttext	Hayward, CA, USA Jan 2024 - Feb 2024
2048 Game California State University, East Bay <ul style="list-style-type: none">Implemented the popular 2048 game on web using React.js and transitions using react-spring.Link to the gameSkills: React.js, react-spring, Material UI, Typescript, HTML, CSS	Hayward, CA, USA Sep 2023 - Dec 2023
Kuramoto Model in CUDA Indian Institute of Technology, Indore <ul style="list-style-type: none">Implemented CUDA parallel computing for Kuramoto oscillator equations, enhancing accuracy with a 4th-order Runge-Kutta method and achieving a 1000% speed increase for large networks.Skills: C++, CUDA, GPU Programming, OOP, Parallel programming.	Indore, India Jan 2021 - Mar 2021
Graph Classification using CNN Indian Institute of Technology, Indore <ul style="list-style-type: none">Efficiently classified diverse graph types using Convolutional Neural Networks (CNN), analyzed time-series data from the Kuramoto Model with MATLAB, and conducted high-performance network simulations in C++.Skills: Python, CNN, C++, MATLAB, Time-series analysis, Kuramoto oscillators, Simultaneous differential equations, Runge-Kutta methods.	Indore, India Jan 2021 - Mar 2021
Twitter Data Analysis Indian Institute of Technology, Indore <ul style="list-style-type: none">Analyzed millions of tweets, created a network using tweet mentions, and identified a 20% spread of Covid-19-related rumors in the Twitter network.Skills: Python, Data extraction, Data analysis, Twitter API, Network analysis, Networkx.	Indore, India Jan 2020 - Jul 2020
Equivalent Resistance Calculator Birla Institute of Technology, Mesra <ul style="list-style-type: none">Developed a C++ program employing nodal analysis to determine the equivalent resistance between two junctions, calculate potentials at each junction, and ascertain the current flow through all the wires.Skills: C++, Nodal analysis, OOP, Mesh analysis.	Ranchi, India Jan 2019 - Jul 2019

Publications

RESEARCH PUBLICATIONS
Machine learning assisted network classification from symbolic time-series Atish Panday, Woo Seok Lee, Shubhasanket Dutta, Sarika Jalan Chaos 31 (Mar. 2021), 2021

Achievements

2023	Runner up , CSU East Bay Gradslam	USA
2021	315/340 , Graduate Record Examinations (GRE)	India
2019	All India Rank - 370 , Joint Admission for Masters Exam	India
2018	Rank - 3 , Chess Championship at BIT Mesra	India
2016	All India Rank - 19000 , IIT-JEE Advanced	India
2011	97 percentile , Yukti National Exam	India

Languages

English	Professional proficiency
Hindi	Native proficiency
Bengali	Native proficiency
Spanish	Beginner

References available upon request.