

Ayushman Bilas Thakur

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An assistant professor, learner, full stack and cybersecurity enthusiast

Professional Experience

Assistant Professor II, Adamas University, Barasat, West Bengal, India September 2024 - Now

- Conducting classes for Bachelor of Technology in Computer Science, BCA and MCA students in various subjects like basic programming, full stack software development and cryptography.
 - Training 3rd and 4th year students on full stack software development to help them understand industry standard tools for application development.
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Education

Master of Science in Computer Science (Cybersecurity) Aug 2022 - May 2024

Arizona State University, Tempe, Arizona, United States of America GPA: 3.33/4.00

- Worked on an operating system level enclave implementation for secure cloud computing.
- Led a group project for coursework of mobile computing with a context-aware mobile application which uses weather and maps data to create timely alerts for meetings.
- Led a group study and report about how and if machine learning based methods can be used instead of traditional security measures to protect user data in the cloud.
- Scored an A+ in Software Security course learning and exploiting vulnerabilities like code injection, buffer overflow, Return Oriented Programming and heap overflow.

Bachelor of Technology in Computer Science and Engineering Aug 2018 - July 2022

Kalyani Government Engineering College, Kalyani, India GPA: 9.42/10.00

- Graduated with a top 5 standing in my college.
- Led Developers' Club at Kalyani Government Engineering College since late 2019 which was the predecessor to Developer Students Club by Google at Kalyani Government Engineering College
- Worked as a leader for our final year project in cloud computing showing benefits of edge computing in an automated parking system.

Higher Secondary Education, West Bengal Council of Higher Secondary Education July 2018

B T Road Government Sponsored H.S. School Score: 92%

- Completed my Higher Secondary Examination with a 92% score securing a top 10 finish in school.
- Scored 97% in mathematics, 93% in Physics and Computer Science

Secondary Education, West Bengal Board of Secondary Education July 2016

Baranagore Ramakrishna Mission Ashrama High School Score: 91.8%

- Scored 100% in mathematics and science
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Skills

Front-End Development: HTML5, CSS3, JavaScript, TypeScript, React.js, Vue.js, Svelte, Tailwind CSS

Back-End Development: Node.js, Express.js, Flask, Django, MongoDB, MySQL

Programming Languages: Python3, C, C++, Java

Other Skills: Figma, Flutter, Git, Communication, Teaching, Blog Writing, Linux Kernel,

Other Experiences

Grader, Arizona State University, Tempe, Arizona, United States Jan 2023 - Dec 2023

- Graded 10 different coding-based assignments of over 80 students over two semesters - Spring 2023 and Fall 2023 in a graduate-level Advanced Operating Systems course.
- Hosted office hours for 1 hour every week to answer the doubts of students about assignments.
- Contributed to midterm and final exam evaluation and uploading final results over a tight deadline.

Instructor, Introduction Computer Center, Kolkata, India Jan 2021 - Jul 2022

- Taught over 30 students from different age groups about the basics of programming languages like C, C++, Java, Python, and SQL.

Full Stack Web Developer Intern, Kesowa, Kolkata, India Sep 2020 - Dec 2020

- Boosted productivity by 50% by implementing a web-based dashboard to upload data generated by drone mappings for the clients from the administrative end, without any interference.
- Handled upload of image files of size over 500MB and handled efficient delivery of those images.
- Implemented a Vue.js-based frontend connecting to a MongoDB-based database reducing data entry mistakes by 32%.

Full Stack Developer, Mind Webs, Kolkata, India

Mar 2019 - Sep 2020

- Worked on 7 different client projects ranging from custom WordPress solutions to custom websites with complex backends.
- Collaborated on a business-oriented link-shortening application which benefited local businesses.

Personal Projects

Useful Sites React.js, Express.js, MongoDB; useful-sites.netlify.app

Aug 2021 - Sep 2021

- Developed a mobile-first UI with React.js and interactivity implemented using Typescript.
- Implemented data persistence through a MongoDB-based database with MongoDB atlas.
- Established an efficient REST API using Express.js to seamlessly interact with the MongoDB database, with important security measures like CSRF protection.

Odd n Even HTML5, CSS3, JavaScript; oddneven.netlify.app

Apr 2020 - May 2020

- A small game with features like swipe gestures, local storage for saving high scores and sound playback. This game explains my skills with HTML5, CSS3 and JavaScript and finishing up a complete project.

Community Activity

Group Member, Developer Students' Club KGEC, India

Jul 2019 - Jul 2021

- Orchestrated a well-received online webinar in 2020, educating 50 students about building a web application and connecting that application with an IoT device, showcasing effective communication and teaching skills. Also participating in weekly meetings to discuss further development