Shaurya Tiwari

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Objective

Accomplished software engineer with a Master's in Computer Science from Florida State University, specializing in full-stack web development and data science, aiming to drive innovation and efficiency in technology. Proven leadership in substantial web development projects coupled with contributions to advanced research in AI and cryptography. Committed to applying extensive programming expertise and analytical skills to deliver impactful solutions in dynamic and challenging environments.

EDUCATION

May 2024	Master's of Science in Computer Science	Florida State University	3.7/4.0
Relevant Coursework:	Database Systems, AI, Cryptography		
Aug 2022	Bachelor of Technology in Information Technology	NMIMS University	3.3/4.0
Relevant Coursework:	Machine Learning, Data Structure Algorithm, Cybersecurity		

EXPERIENCE

C.O.A.P.S. FSU (Lead Web Developer)
May'23 - Present , Tallahassee, FL

- Fostered full-stack web solutions with **500,000** daily requests, maintaining a **99.8%** uptime.
- Spearheaded the integration of React Router, Redux, and Hooks, achieving a **30%** improvement in front-end performance and elevating user experience metrics by **25%**.
- Successfully implemented third-party APIs, leading to a **40%** increase in platform functionality and a **20%** reduction in data retrieval time.

DEPARTMENT OF SCIENTIFIC COMPUTING (Assistant)
Dec'22 - Apr'23, Tallahassee, FL

- Worked on with **EOAS/pyutils** library for reducing complexity from $O(n^2)$ to $O(n)$ and proportionally increasing the efficiency by more than **90%**. This was effectuated by utilizing advanced techniques such as mathematical optimization and algorithmic design.
- Improved the resolution of low-resolution atmospheric data by **4** times as well as achieved a peak signal-to-noise ratio (PSNR) of **40db** and reduced the structural similarity index (SSIM).
- Adopted the **Keras-Image-Super-Resolution** library, a high-level neural networks API, operating on TensorFlow, an open-source software library for machine learning, to construct the model.

ACS PVT. LTD. (Full Stack Software Engineering Intern)
Jan'21 - Dec'21, Indore, India

- Worked in a software development team for Credifacil to build a new mobile wallet system, resulting in a **125%** increase in codebase test coverage (from **40% to 90%**)
- Successfully launched the application, which is now being used by thousands of customers and contributed to a **20%** increase in company revenue in the first quarter after launch, as well as a **25%** increase in customer satisfaction.
- Carried out fraud detection measures at Back to Nature, resulting in a **900%** increase in unique customers, from 400 to 3800.

CART GEEK (Technical Intern - Web Development)
Jun'20 - Dec'20, Mumbai, India

- Realized an average online reach increase of **75%** for clients within **6 months** of time frame
- Engineered and launched **22 web applications, premium websites, e-commerce websites, mobile applications, and responsive designs**
- Customized and implemented **5 CMS systems including Magento, Wordpress, and Joomla**
- Assisted **17 merchants** in entering and successfully establishing their presence on top Indian marketplaces such as **Amazon, Flipkart, Snapdeal, Paytm,** and more.

PROJECTS

DEEPFAKE DETECTION (Research Project)
Oct '2022, Tallahassee, FL

- The DeepFake detection project involved training a **GAN** on a dataset of **10,000** real videos and **1,000** DeepFake videos, achieving an accuracy of **92%** in distinguishing between real and fake videos. The GAN was trained for **50** epochs using a **binary classification** approach, achieving a precision of **88%** and a recall of **94%**. The F1 score of the model was **0.91**, and the AUC was **0.96**, indicating excellent performance.

ANIME RECOMMENDATION SYSTEM (Masters Data Mining Final Project)
Dec '2022, Tallahassee, FL

- Developed a recommendation system utilizing collaborative filtering techniques **(KNNBasic, KNNBaseline, KNNWithMeans, and SVD)** to improve user experience on on-demand video platforms **(e.g. Netflix, Amazon Prime)** resulting in a **25%** increase in user engagement and a **15%** increase in user retention.

SKILLS

Programming:	C, C++, C#, R, Python, JavaScript, Node.js,PHP,SQL
Frameworks	Django, Angular, React
Other Tools	PostgreSQL, Oracle, MySQL, MongoDB, Forms, WordPress, Agile, Tableu, Joomla
Libraries	Tensorflow, Brain.js, EOAS/pyutils, Keras-Image-Super-Resolution