

VISHWAM SHAH

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EDUCATION

Master of Science, Computer Science, Florida State University **Aug 2022 – Present**

Tallahassee, FL, **GPA: 3.91**

(Problem Solving, AI, Data Science, Data and Computer Communication, Cryptography, IoT, Analytical Methods in CS, Advanced Database Systems, Bioinformatics: Sequence Analysis, Projects in Data Science)

Bachelor of Science, Computer Engineering, Gujarat Technological University **Jun 2018 - Jun 2022**

Gujarat, India, **GPA: 3.9**

(Data Structures, Database Management System, Object Oriented Programming, Software Engineering, Computer Networks, Python for Data Science, Web Programming, Cryptography & Network Security, Cloud Computing, Artificial Intelligence, Machine Learning)

PROFESSIONAL EXPERIENCE

Researcher, Department of Psychology – Neuroscience, Florida State University **Jul 2023 – Aug 2023**

(Technologies: MATLAB, fMRIPrep, FreeSurfer, FSL, AFNI, HPC)

- Spearheaded custom MATLAB scripts for raw fMRI data preprocessing, reducing data analysis time by 2 hours.
- Augmented data quality by preprocessing datasets, utilizing Gordon's 333 regions for rest and task data.

Mentor, Women in Computer Science (WiCs), Florida State University **Jan 2023 – May 2023**

- Architected curriculum, empowering female students' computer science participation 2x as a WiCs program mentor.
- Mentored 20+ students, boosting their technical skills facilitating hands-on workshops on full-stack development, AWS, and DevOps, preparing them for opportunities.

Full Stack Developer & DevOps Engineer, MaMo Technolabs LLP, Gujarat, India **Jan 2022 – Jul 2022**

(Technologies: NodeJS, MongoDB, ExpressJS, ReactJS, AngularJS, VueJS, AWS, PHP, C++, Dart, Flutter, Android, SPIP, Python, Richie CMS, Postgres DB, SQL, Trello, ClickUp, JIRA)

- Managed team of 4 developers as SCRUM master, completed projects with ample buffer time, and launched 3+ innovative products.
- Integrated 45+ RESTful APIs, streamlined UIs, hosted websites/applications on cloud architecture, achieving accelerated page load times.
- Deployed AWS services, serverless architecture and database configurations, ensuring 8k-10k request throughput per second.

Full Stack Intern, Professional Services, Paul Mason Consulting Limited, UK – India **Aug 2021 – Dec 2021**

(Technologies: AngularJS, NodeJS, JavaScript, JQuery, Bootstrap, MYSQL, C, JAVA, Docker)

- Engineered an authentication bypass and deployed file system automation, resulting in a voucher upload time reduction from 20s to 5s.
- Collaborated with a team of developers to design and implement continuous integration/continuous delivery (CI/CD) pipelines, enhancing the efficiency of software deployment processes.

Back-End Intern, Akash Technolabs, Web and Mobile App Development, Gujarat, India **May 2021 – June 2021**

(Technologies: NodeJS, ExpressJS, EJS, HTML, CSS, JavaScript | <https://github.com/vishwam7/AKASH-TECHNOLABS-INTERNSHIP>)

- Orchestrated a interactive website with multiple routes, authentication APIs, and CRUD operations, resulting in a seamless user experience and a 30% increase in user engagement.

Software Developer Engineer Intern, DIGITebl, Maharashtra, India **Aug 2020 – Nov 2020**

(Technologies: AngularJS, AngularCLI, Typescript, Angular Material, Bootstrap, JSON)

- Fine-tuned bussiness KPI data reports using dependency injection, Inversion of Control (IoC) and ComponentFactoryResolver for adaptive chart loading, achieving a 200ms reduction in data loading latency.
- Developed two UI versions for enhanced visualization, leveraging Angular's ViewChild and Google Chart API, resulting in 30% decrease in average user decision time as measured by click-through rates.

PROJECTS

Medical Image Segmentation

(Technologies: Python, TensorFlow, Keras, PyTorch, OpenCV, NumPy, Linux/Unix (Ubuntu))

- Applied U-Net model for segmenting cell nuclei in microscopic images, employing a 23-layer architecture with skip connections for enhanced localization in the Downsampling/Upsampling Path and Bottleneck Block.

Optimized K-Core Decomposition for Large-Scale Networks

(Technologies: Java, Perl, GraphChi, WebGraph, EMCORE, Linprog Servers | https://github.com/vishwam7/DBMS_integration)

- Consolidated the Batagelj-Zaversnik and GraphChi's algorithm with memory enhancements and parallelization, achieving linear time — $O(m)$ complexity with less than 1% update rate within 20 iterations.

SKILLS

- **Languages & Frameworks:** C++, AJAX, Firebase, Docker, HTML, CSS, Bootstrap, Flexbox, D3.js, Chart.js
- **Cloud Platforms:** Google Cloud Platform (GCP), Amazon Web Services (AWS)
- **Development & Collaboration Tools:** Git, Trello, Notion, ClickUp, JIRA, Confluence, Jasmine, Jest, Chrome DevTools, ESLint, Prettier, Webpack, Grunt, Gulp, Matplotlib

CERTIFICATIONS

- Google Cloud Platform (GCP) Fundamentals: Core Infrastructure
- Essential Google Cloud Infrastructure: Foundation
- Programming for Everybody (Getting Started with Python)
- Python Data Structures