Nashita Guntaguli

Singapore • nashitag@gmail.com • Profile - nashita.netlify.app

Education

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN Singapore
Summa Cum Laude, GPA 4.53/5 May 2017 - Aug 2020
Bachelor of Engineering (Information Systems Technology and Design), ***Honors with Highest Distinction***
Minor in Artificial Intelligence, Specialization Track: Data Analytics
SUTD Honors List 2018, 2019, 2020

STANFORD UNIVERSITY - INTERNATIONAL HONORS PROGRAM CA, USA
Global Leadership Program at Stanford University Jul 2018 – Aug 2018

THE MILLENNIUM SCHOOL Dubai, UAE
Head Girl of The Millennium School, President of Student Council Apr 2017

Skills

Java | Python | JavaScript | Node.js | HTML | CSS | Hadoop | Spark | SQL | Tensorflow
Machine Learning | Data Science & Big Data | AngularJS | React | Android Development | iOS Development
Collaboration | Public Speaking | Adaptability | Analytical Reasoning | Project Management

Experience

VISA INC. Singapore
Senior Software Engineer Jun 2022 – Present
Software Engineer Jan 2021 – May 2022

- **Site Reliability Engineering**
  - Improved reliability, availability, and efficiency of Visa's digital products by implementing Site Reliability Engineering principles.
  - Analyzed complex systems as subject matter expert of Visa's digital products to engineer numerous product improvements.
- **Fullstack Development**
  - Developed key features in internal production tools using JavaScript to reduce toil and optimize automation, increasing user engagement by 30%.
  - Successfully led the migration of existing production tool from Node.js to AngularJS.
  - Mentored junior developers on the team, resulting in a 25% increase in productivity and improved code quality.
  - Implemented TypeScript, improving code quality and reducing bugs by 50%.
  - Optimized application's performance using techniques such as lazy loading and code splitting, resulting in a 30% faster page load time.
- **Production Analytics**
  - Utilized Python-based Machine Learning libraries such as scikit-learn and TensorFlow to build 3 predictive Machine Learning models, resulting in a 95% accuracy rate in predicting API latency in production environment.

PALANTIR Singapore
Project Open Mapping for ASEAN Region, Disaster Management (FYP) Jan – Jun 2020

- Conceptualized and developed an impact assessment tool enabling planners to create effective disaster relief plans.
- Built a flood & impact model to assess the damage caused by rainfall by aggregating 10 data sources.
- Engineered key features of the geospatial visualization platform using React.js to enable an effective user experience for planners.
- Developed automated build and deployment system with Git, reducing deployment time by 60%.
- Spearheaded essential pipelines of the solution architecture i.e. geo-data processing & computation scripts.

IBM Singapore
Data Scientist Intern May – Aug 2019

- Designed two end-to-end data science demos using ICPD(IBM Cloud Pak for Data).
  - Utilized R language, PySpark, and TensorFlow to create and train ML and DL recommendation models.
  - Demonstrated proficiency in modern frameworks such as Angular, JavaScript, Node.js, TypeScript, HTML5/CSS, and Git.
  - Used TypeScript to enhance code quality and maintainability.
- Strategized, organized, and executed a Data Science Forum at IBM on 11th July 2019
  - Networked with over 300 industry professionals from the Data Science Industry across Singapore, inviting 40 of them to the forum, featuring 4 guest speakers.
  - Presented a data science demo on "Enabling seamless personalization and dynamic advertisements" at the Forum, generating 4 customer opportunities for ICPD worth $1m.

ACCENTURE Singapore
Modern Support Ticketing System, Front-end Lead Jan – Apr 2019
- Developed a modern support ticketing system in React, streamlining customer support processes with ACNAPI and MongoDB.
- Successfully advised and implemented Agile Methodology to improve app features and user experience.
- Conducted unit and system testing, ensuring the app's robustness and reducing error rates.

Academic and External Projects (*find out more at* **nashita.netlify.app/work**)
Machine Learning and Computer Vision Projects: Feb - Apr 2020
- Programmed ML models and Neural Networks to predict erroneous PANSS Assessments of Schizophrenic Patients.
- Engineered an image captioning model using encoder-decoder architecture with attention, integrated with a front-end app.
- Collaborated in team of 5 to classify handwritten Bengali grapheme using data generation, augmentation, and ResNet34 with 3 tails.

Full Stack Applications developed:
- React App for Dogges Swap, a decentralized exchange platform. Oct 2021
- React Native app (iOS & Android) for Digital e-Nomination to write and secure wills on blockchain. Dec 2020
- Private photo/video iOS app, Vault App, in Swift with advanced privacy features. Oct 2020
- Flask app using MongoDB and SQL for online book reviews. HDFS architecture for backend analytics. Dec 2019
- MEAN Stack dashboard with back-end computing, equipped with advanced UI. May 2019
- Android-based facial recognition system with computer vision models achieving up to 90% accuracy. Dec 2018

Self Balancing Tray, Project Lead [link here] Sep - Dec 2017
- Spearheaded a team of 5 to conceptualize and design a self-balancing tray using Arduino and servo motors, benefiting individuals with disabilities in the food service industry.
- Conducted in-depth research and interviews with restaurant staff, resulting in 7 effective prototypes before finalizing the design.

Leadership & Co-curriculars
Social Innovation Startup - MYX Sep 2019
- Secured $10,000 funding for "Myx", a social innovation startup aimed at reducing food waste in Singapore restaurants using ML. Launched POS systems partnered with DBS and eNETS for hawker centers.

Undergraduate Teaching Opportunity Program 2019
- Served as Undergraduate Teaching Assistant for Physics, Mathematics, and Chemistry earning UTOP certificate of appreciation.

President Of Red Cross Youth Chapter At SUTD Sep 2017 - Nov 2018
- Administered Red Cross's chapter at SUTD to coordinate 3 successful blood donation drives.
- Persevered in training SUTD team for Inter-University First Aid Championship, resulting in a Silver Award win.

Director Of Finance, Orientation 2018 Aug 2017 - Jun 2018
- Spearheaded the Finance Committee to analyze and manage a budget of S$30,000 to plan an outstanding 4-day orientation for 450 freshmen.
- Utilized advanced Microsoft Excel functions to optimize budget allocation and generated up to S$6K in returns.