Neil Narvekar

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EDUCATION

University of Texas at Austin August 2018-May 2022

- **BS Computer Engineering**
- Overall GPA: **3.78**
- Technical Core: Software Engineering
- Relevant Coursework: Data Structures and Algorithms, Data Science/Machine Learning, Software Testing, Concurrent and Distributed Systems, Information Security, Embedded Systems

WORK EXPERIENCE

Software Development Engineer August 2022-Present

Amazon

- Fullstack engineer developing security tools used by Amazon employees worldwide
- Developed microfrontend platform using React, Javascript, with data stores RDS and DynamoDB
- Serverless infrastructure utilizing AWS Lambda and Fargate to fulfill 50k+ web requests per day
- 1 million+ daily requests to our API Gateway downstream APIs utilized by 90+ onboarded teams
- Develop backend workflows using AWS Step Functions and SES that send ~10k daily user emails, resulting in $500k increased ROI
- Maintain operational excellence with AWS Cloudwatch alarms, Jest unit tests, and oncall cycles
- Create and maintain scalable AWS infrastructure and deployment pipeline using AWS CDK
- Own end-to-end feature lifecycle including design, implementation, and deployment
- Create design documentation and architecture diagram, and lead design review meetings
- Utilize agile development with scrum methodology through biweekly sprint cycles

Software Engineering Intern September 2021-December 2021

AMD

- Data analytics engineer developing Python backend to increase efficiency of CPU debug process
- Develop data cleaning and decoding worker app to analyze records added to MongoDB database, working on 1000s of existing and newly added debug records as a background task
- Test code using Python unittest framework connected to CI/CD pipeline using Github Actions
- Develop front end interfaces to display MongoDB records on web with Flask, HTML, and CSS
- Create search engine using Elastic to provide interface for debuggers to easily find records

Software Engineering Intern May 2021-August 2021

Keysight Technologies

- Cross compiled build for traffic generator and component modules from x86_64 to arm64
- Tested traffic generator throughput on embedded systems with Python testing scripts in terms of max packets per seconds for a given flow duration

ACADEMIC PROJECTS

Music Generation Neural Network April 2021-May 2021

https://david-exiga.medium.com/music-generation-using-lstm-neural-networks-44f6780a4c5

- Created an LSTM neural network using Keras and Python trained on input pop songs
- Network predicts the next note given a sequence to output a full song

Anime Cataloging Website September 2020-October 2020

- Back end developer for website to browse popular animes with information from REST APIs
- Created routes with Flask and queried MongoDB database to display information on front end
- Deployed with AWS Elastic Beanstalk to quickly deploy the website in just a few hours

TECHNICAL SKILLS

Proficient: **Javascript, Typescript, GraphQL, SQL, HTML, CSS, Material UI, Nodejs, React, AWS, Jest, Python, Linux, Git, Postman, Java**

Certifications: **AWS Certified Developer Associate, AWS Certified Cloud Practitioner**