Siddharth Vohra

SOFTWARE & DATA ENGINEER

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Work Experience

Amazon Web Services   *Seattle, Washington*
SOFTWARE DEVELOPMENT ENGINEER   *August 2022 - Present*
• Working in AWS Lambda organization, on the Elastic Beanstalk & App Runner team, to enhance and maintain a diverse range of products
• Independently orchestrated the integration of 3 AWS products across 4+ teams, culminating in a user-facing AWS project
• Singlehandedly developed an autonomous testing suite that continuously emulates every possible customer interaction with the App Runner console
• Collaborating with multiple teams on internal, open-source, and customer-centric projects, including addressing numerous security issues
• Employing AWS technologies (EC2, App Runner, WAF, Copilot, CloudWatch, S3, DynamoDB, Lambda) to deliver high-quality solutions
• Using **Go** (Back-end), **Java** (Back-end), **Python** (Back-end), **Node.js** (Back-end), **JavaScript** (Front-end), **React** (JS Library), and **AWS Internal tools**

Teradata   *San Diego, California*
SOFTWARE ENGINEERING INTERN   *July 2021 - September 2021*
• Devised and implemented strategies to streamline storage and management of large objects in the Teracloud system
• Collaborated with TeraCloud team to restructure storage for large objects within and across Teradata database systems
• Used **C** (Back-end), **SQL** (Queries), and **Teradata database system** (Database)

TAIZ Network   *New Delhi, India*
SOFTWARE ENGINEERING INTERN   *October 2020 - March 2021*
• Constructed a versatile tool to extract data from diverse PDFs and images (handwritten & typed), process it, and form a database
• Developed tools to transform processed data into a standardized format, streamlining storage, comparisons, and query operations
• Used **Python** & **Node.js** (Back-End), **Amazon Textract** (Text extraction), **Pandas & Numpy** & **Amazon DynamoDB** (NoSQL Database)

Hitachi   *Bangalore, India*
MACHINE LEARNING INTERN   *June 2020 - August 2020*
• Benchmarked Temporal Ensembling Model and investigated intraclass variability's impact through training on various datasets
• Researched the implementation of Histogram of Oriented Gradients (HOG) for image processing and diverse computer vision techniques for pedestrian attribute recognition and person re-identification
• Used **Python** (Back-End), **PyTorch** (ML Library) & **Google Colaboratory** (Model Training using cloud GPU)

Publications

Ravikiran, M., Vohra, S., Nonaka, Y., Kumar, S., Sen, S., Mariyasagayam, N., & Banerjee, K. (2023). You Reap What You Sow—Revisiting Intra-class Variations and Seed Selection in Temporal Ensembling for Image Classification. In Proceedings of International Conference on Frontiers in Computing and Systems (pp. 73-82). Springer, Singapore.
(Manikandan Ravikiran and Siddharth Vohra—Both authors contributed equally. Names are ordered alphabetically)

Vohra, S., & Ravikiran, M. (2020, August 20). Investigating the Effect of Intraclass Variability in Temporal Ensembling. Preprint, arXiv:2008.08956

Education

Harvard Business School Online   *December 2022 - June 2023*

CORE: CREDENTIAL OF READINESS | GRADE: PASS

University of California, San Diego   *September 2019 - June 2022*

B.S. IN COMPUTER SCIENCE & MATHEMATICS | GPA 3.83

Relevant Coursework: Software Engineering, Algorithm Design & Analysis, Advanced Data Structures, Systems Programming, Operating Systems, Theory of Computability, Web Mining & Recommender Systems, Engineering Probability & Statistics, Principles of Data Science, Data Science in Practice, Exploratory Data Analysis & Inference

Certifications: Amazon Web Services (AWS) Certified Cloud Practitioner

Selected Projects

Bullet Journal & To-Do List Web App   *March 2021 - June 2021*
NODE.JS, MONGODB, INDEXEDDB, HTML/CSS
• Singlehandedly designed and developed multiple **NoSQL** databases, leveraging **MongoDB** and **IndexedDB**, for a web application
• Contributed to front-end and back-end development of the web app utilizing **HTML/CSS** and **JavaScript (Node.js)**

Spotify HyperRecommender   *December 2020 - Present*
PYTHON
• Develop a recommender tool utilizing streaming data from Spotify to suggest songs based on the hour of the day
• Plan to incorporate additional variables (e.g., time of the year) and expand support for other music streaming applications

Honors & Awards

Cum Laude - Latin Honors, UC San Diego   June 2022
Provost's Honors - Eleanor Roosevelt College, UC San Diego   All enrolled quarters (2019-2022)
Gold Medal for Academic Excellence - Delhi Public School, R. K. Puram   November 2017

Skills

Languages: C, Java, Python, Go, C++, ARM, JavaScript, HTML/CSS
Libraries & Tools: AWS, React.js, Node.js, Numpy, Pandas, PyTorch, TensorFlow, JUnit, Puppeteer, MATLAB, R, Git, MySQL, MongoDB, IndexedDB
Leadership: Founding & Principal Member, Machine Learning Club at UC San Diego
Conferences: Harvard College Project for Asian and International Relations (HPAIR) Asia Conference 2021 Delegate
Organizations: UCSD Data Science Student Society (DS3), Association for Computing Machinery (ACM), IEEE