VIKEN SHAUMITRA PARIKH

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EDUCATION

Master of Science, Computer Science   **May 2020**
Arizona State University, Tempe, AZ   **3.73/4.0 GPA**
Coursework: Data Structures and Algorithms, Cloud Computing, Distributed Database Systems, Semantic Web Mining, Software Security, Fundamentals of Statistical Learning, Statistical Machine Learning, Artificial Intelligence (AI), Multi-Robot Systems

Bachelor of Technology, Computer Science   **May 2018**
K. J. Somaiya College of Engineering (KJSCE), Mumbai University, India   **3.62/4.0 GPA**
Coursework: Database Management, Data Mining, Web Technologies, Operating Systems, Big Data, ML, AI, OOPS (Java), SPCC, CSM

PROFESSIONAL EXPERIENCE

Software Engineer Intern – PayPal, San Jose   **May 2019 – Aug 2019**
- Collaborated in Payments with the issuance and tokenization team to engineer a tool for PayPal's tokenization services.
- Researched and designed a solution architecture to build a software development kit (using Java (SpringBoot), Couchbase, GitHub, Swagger Codegen, docker) which provided quick and effective integration with clients.
- Working alongside a team in agile method to effectively translate business specification to logical programming solution.

Software Developer – Decision Theater Network, Arizona State University   **Dec 2018 – Present**
- Developing solutions to complex problems with the help of computing and display technologies for data visualization, analysis, modeling and simulation using Chainbuilder software. (Python, PHP, JavaScript)

Graduate Services Assistant – Ira A. Fulton Schools of Engineering, Arizona State University   **Aug 2018 – Nov 2018**
- Worked to improve course on Decision Making and Problem Solving (CPI 360) and students' evaluation.

Research and Development Intern – Department of Electronics Engineering, KJSCE   **Aug 2017 – Nov 2017**
- Researched novel face recognition algorithm (MATLAB) which had better accuracy (95%) than traditional SVM model (89%).
- Synthesized algorithm based on Bayesian Networks that predicted (76%) salary group of adults using Census Income data.

Cross-Platform App Developer Intern – Way2Society, Mumbai   **June 2017 – July 2017**
- Led a team of 12 to develop an automated portal to keep track of payments and monthly activities in housing societies.
- Developed a website (way2society.com) and an android application(Ionic3) with Java Servlets, MySQL hosted on AWS.
- Among the top 5 products in the category in the city with more than 22,000 active users.

TECHNICAL PROJECTS

Autoscaling-Object-Detection (GitHub: AWS-AutoScaling-Object-Detection)   **Jan 2019 – Mar 2019**
- Designed an architecture for a fault tolerant system which works effectively with varying requests load and provide object detection using YOLO algorithm. Technologies used – Java (Sprint Boot), Python3 (Flask), AWS (EC2, S3, SQS).

Food Donation System (GitHub: Food-Donation-System)   **Mar 2019 – May 2019**
- Devised a solution using an android application (Ionic3) for food wastage and people in need of food.
- A scalable backend application developed using Python3 and MySQL deployed on Google Cloud Platform (GCE, Cloud SQL).

Secure Banking System (GitHub: SS_BankApp)   **Jan 2019 – May 2019**
- Developed a secure online banking system to provide a way to connect customers and employees for various transactions.
- Worked in a group of 8 using (JAVA Spring, Hibernate as ORM, MySQL as Database, and Vue.js for UI)

Travigate – A Personalized Tourist Guide (GitHub backend: Travigate, frontend: Travigate-Front-End)   **May 2017 – June 2018**
- Led a team of 4 and developed a prediction application to provide recommendations to users based on their preferences and reviews from TripAdvisor dataset using collaborative filtering. (89.5% accuracy)
- A model for image recognition of top tourist places using keras and CNN was developed scraping images from google.
- The mobile application was developed using Ionic3, Python3.6 (with Flask), MySQL, AWS EC2, RESTful Services (JSON).
- Designed and built a website providing information and reviews of travel-related content. **(GitHub: LeVoyage)**

TECHNICAL SKILLS AND PERSONAL PROJECTS

Programming Languages – Java, Python3, C++, C, JavaScript, HTML5, CSS3, PHP, XML, SQL, NoSQL, Unix Shell Scripting, R, MATLAB
Programming Tools and Frameworks – Spring Boot, Flask, MySQL, Ionic3, Angular4, MongoDB, Node.js, Django, Apache Cordova, Electron, Android Studio, Bootstrap, Node.js, jQuery, PostgreSQL, Cassandra, Weka, Docker Amazon Web Services, Google Cloud Platform, IBM Cloud, GitHub, Apache Hadoop, Theano, TensorFlow, Keras, H2O, Scikit-learn, MXNet, Torch, StarUML, Rational Rose
Personal Projects : Q-Learning Ip Routing – Reinforcement Learning in IP Packet Routing (GitHub: Qlearning ip routing), Vpods – Android Quiz Application (GitHub: Android-Quiz-App), Vetflix – Movies/Tv-shows recommender (GitHub: Vetflix), Mutext – Music and text generation (GitHub: Mutext)

TECHNICAL PUBLICATIONS, AWARDS, AND CERTIFICATIONS

- Viken Parikh, et al. "**A Tourist Place Recommendation and Recognition System**". International Conference on Inventive Communication and Computational Technologies 2018. (https://ieeexplore.ieee.org/document/8473077)
- Viken Parikh and Mansi Khara. "**A mixed reality workspace using telepresence system**". International conference on ismac in computational vision and bio-engineering. (https://www.springer.com/us/book/9783030006648)
- Winner at Crackathon (Hackathon) 2016, KJSCE, and Participant at ACM Inter-Collegiate Programming Contests 2016, 2017.