

VAYBHAV SHAW

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EDUCATION

University of Minnesota, Twin Cities, MN

July 2019(Expected)

Master of Science in Computer Science

Courses: Machine Learning, Artificial Intelligence, Data Mining, Recommender Systems, Developing the Interactive Web, Social Network Analysis, Software Engineering, Dispersed Data Driven Computing

West Bengal University of Technology, Heritage Institute of Technology, India

June 2013

Bachelor of Technology in Information Technology

SKILLS

Languages	: Java, Python, C#, C, C++, LISP, SQL, QJava
Web-Technologies	: JavaScript, NodeJS, HTML5, CSS3, jQuery, JSX, Handlebars, Bulma, Bootstrap, JSON, AJAX, D3.JS, XML
Database	: SQL Server, MongoDB, KDB
Framework/Tools	: Play, ReactJS, Redux, Akka, React Native, ASP.Net, MS Visual Studio, Express, TensorFlow, TFS, GIT

WORK EXPERIENCE

Graduate Teaching Assistant, University of Minnesota, USA

Aug 2018 – Ongoing

- Teaching Assistant for the course **CSCI 4131 - Internet Programming**
- Responsibilities include *Developing and Grading, Assignments and Exam; Proctoring*

Software Developer Intern, Barclays, New York, USA

Jun 2018 – Aug 2018

- Designed, developed, and deployed; low latency, electronic-trading, **Equities Risk-Aversion Software**
- Achieved the above by implementing concurrent and distributed, Actor-Controller Model, using **JAVA, Akka, and Play Framework**, to automate the fetching of High-Frequency Trading Data from **KDB Database** using **QJava**
- Used this real-time data for computing associated trading risks using Statistical Equities Factor Models
- Displayed the volatile trading risk data on a dashboard using **ReactJS** and **Redux**

Software Developer, Tata Consultancy Services, Kolkata, India

Sep 2013 – Jun 2017

- Developed complex application features for Visa Appointment, Passport Tracking, and Backend Application as per the requirements from **56 client governments in 129 countries with 2343 Visa Application Centers**
- Responsible for full life-cycle application development with **HTML5, ASP.Net, C#, Visual Studio, ADO.NET, and SQL Server**
- Worked on **Proof of Concept** to check the feasibility of new software integrations and performed risk and impact analysis.
- Optimized Stored Procedures by fine-tuning SQL queries, thus reducing the latency of CRUD operations by 35%
- Implemented a highly secure Payment Gateway Module in the Online Visa Appointment System where the customer sensitive data was encrypted using AES-256 Bit Algorithm, the implementation having a **visibility of over 1 million applicants**.
- Conducted investigations to detect malicious attacks on the Visa Appointment System, having major business impact leading to a loss of over \$250,000. Developed software fixes to neutralize the attacks and restored normal operations.
- Successfully trained 4 incoming batches of Software Developers on project technology, architecture and domain knowledge
- Conducted meetings with clients from EMEA, ASPAC and AMR regions to comprehend the business requirements for implementation of new Object Oriented Software Modules and Change Requests.

ACADEMIC PROJECTS

- Neural Style Transfer** Aug 2017 – Dec 2017
Implemented a **Convolutional Neural Network (CNN)** using **Python** and **TensorFlow**, to perform semantic style/texture transfer on simple images to transform them into artistic paintings.
- Note-e-Matic** Sep 2017 – Nov 2017
Developed a note-taking application using **React.JS, Node.JS, JSX**, and **jQuery** for writing and saving text and code notes (along with code auto-complete). It has features of inter-user notes sharing and tag-based note searching.
- Movie Recommender System** Aug 2017 – Oct 2017
Developed an application using **JAVA** and **Lenskit** to provide personalized and non-personalized movie recommendation to users using collaborative filtering, product association, summary statistics, and demographic recommendation.
- Brand Popularity Prediction and Visualization** Feb 2017 – Mar 2017
Implemented a project using **Python** to data-mine live streaming tweets from Twitter, and compared the twitter sentiments of Apple with Samsung at real-time to predict brand popularity.

AWARDS AND ACTIVITIES

- Conferred the '**Service and Commitment Award**' by Tata Consultancy Services, Sep 2016
- Received the '**Star of The Learners' Group**' award amongst 207 inductees at the Initial Learning Program, TCS, Dec 2013.
- Secured 99.75 percentile (81447 test takers) at the 9th NIIT National IT Aptitude Test, Feb 2013