

ADITYA SURENDRA DERE

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EDUCATION

Binghamton University, State University of New York, Watson School of Engineering

Binghamton, NY

Master of Science in Computer Science, GPA: 3.71/4.00

Expected December 2019

Courses: Design and Analysis of Algorithms, Programming for the Web, Computer Architecture & Organization, Software Engineering, Programming Languages, Introduction to Data Mining, Operating Systems

University of Pune

Pune, India

Bachelor of Engineering - Computer Engineering, GPA: 3.50/4.00

May 2014

TECHNICAL SKILLS

Programming Languages: Java, C, C++, SQL, Ruby

Web Technologies: JavaScript, Node.js, HTML, CSS, Bootstrap, REST API, JSON, Knockout.js, PHP, AJAX, MongoDB

Technologies and Tools: Git, SVN, Oracle Weblogic Server, Ruby-on-Rails, Pivotal Tracker, Eclipse, Cordova

PROFESSIONAL EXPERIENCE

The Research Foundation for SUNY (Binghamton University)

Binghamton, NY

Research Project Assistant

May 2018 - Present

- Implement, Develop and Maintain changes to Binghamton University's website via content management system
- Technologies working on are PHP, HTML, JQuery, JavaScript, CSS

Oracle Financial Services Software Ltd.

Pune, India

Staff Consultant (Full-Stack Developer)

August 2014 - January 2018

– **FCDB (Oracle Flexcube Direct Banking) Transaction Development and Customization (Client – Mashreq bank)**

- Worked on product development, customization, documentation and testing part for the Oracle online banking solution platform. Assisted in resolving live production issues in transaction go-live period
- Developed and customized Two Factor login and transaction Authentication, Funds Amendment/Cancellation request, Fix Deposit transaction, Instant fund Transfer transaction for Retail Online/Mobile banking
- Customized Foreign currency account opening, Beneficiary Maintenance transactions for Corporate Online/Mobile banking
- Technologies used: Java, HTML, XML, Oracle Database, JavaScript, jQuery
- **OBDX (Oracle Banking Digital Experience) Demo Asset – Development**
- OBDX Demo Asset, a mocked product Oracle Sales team used globally for product demo in banks
- Worked in agile development lifecycle to create critical modules including Account Activity, Funds Transfer, Unsecured Personal Loans, Application Tracker, Bill Payments, Locate-Nearby Branches
- Learned to develop Mobile Application using Cordova tool on Android and iOS platforms

PROJECT EXPERIENCE

Document Searching Application (JavaScript)

August 2018 - December 2018

- Built a crude document searching application, application is constructed in 4 projects with extended functionalities
- Deployed an application as a webservice and learned to develop REST APIs
- Technologies studied: JavaScript, Node.js, MongoDB, JSON

Time Series Data Prediction (Node.js)

August 2018 - December 2018

- Applied ARMax-Entropy prediction algorithm to predict product sales of next 29 days for 100 key products from input file containing data of key products from 1 to 117th day

UpDoc – Online Doctor-Patient Relationship Website (Ruby-on-Rails)

January 2018 - May 2018

- Constructed an environment based on agile methodology for doctor-patient interaction, using Ruby-on-Rails, Heroku
- Tested an environment with Rspec and Cucumber and managed Pivotal tracker to keep track of project activities
- Lead project team of 5 members for 3 weeks during project development phase

CPU Simulator (Java)

January 2018 - May 2018

- Programmed a CPU simulator with assembly program as an input to find out Prime/Rational numbers
- Studied and Implemented Optimization techniques includes Data Forwarding, Out of order Execution, Reorder Buffer, Branch Prediction to reduce cycle count from 7289 to 486

Mini Shell (C)

August 2018 - December 2018

- Created a replica of UNIX shell to execute and control UNIX commands, handled zombie process, filters and I/O redirection

Human Age Estimation from Facial Images using Artificial Neural Network (C)

June 2013 - May 2014

- Collaborated with team of 4 members to Design a system to categorize inputted person's image into appropriate age-group
- System based on multi-layer perceptron neural network (MLP) and backpropagation algorithm

VOLUNTEER EXPERIENCE

Java applet & Interface Workshop

January 2017

- Conducted and Managed a Java applet and Interface hands on workshop in Sinhgad College of Engineering for undergraduate computer engineering students, helped students to understand concepts of exception handling, Java applet and Interface