

AKASH VARTAK

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Education

MS in Computer Science, University of Maryland - Baltimore County, Baltimore, Maryland

EXPECTED: MAY 2021

BE in Computer Engineering, Pune Institute of Computer Technology, SPPU, Pune, India

First Class with Distinction, GPA - 3.4/4

MAY 2017

Experience

Yardi Software - Software Analyst, Pune, India

JULY 2017 - JULY 2019

- Designed and developed the complete front and back end of a 3-tiered MVC based web application using JAVA based technologies like Struts2, Hibernate ORM, JSPs, Servlets, Apache Tomcat among others.
- Responsible for the application's security and worked to mitigate issues like SQL Injection, CSRF and Cross-site Scripting.
- Instrumental in implementing a batch-processing algorithm which allocated invoice-batches for processing by considering the number of computing resources available.

E2Open - Project Intern, Pune, India

AUGUST 2016 - MARCH 2017

- Worked on and developed a price prediction and optimisation model proprietary to E2Open.

Vevanesca - Software Engineering Intern, Pune, India

FEBRUARY 2016 - APRIL 2016

- Designed the Front-end of the Web App, being developed in conjunction with an Android app, using HTML, CSS, AngularJS.

Skills

- **Languages:**
 - *Intermediate* - JAVA, HTML, CSS, Javascript, PL/SQL, XML, JSON.
 - *Experience with* - Python, MySQL.
- **Tools and other technologies:**
 - Git, Jupyter Notebook, LINUX (Ubuntu), Brackets, BlueJ.
 - *Libraries* - Bootstrap, Scikit-learn, Pandas and Numpy, Matplotlib and Seaborn.

Projects

Price Optimisation and Elasticity

AUGUST 2016 - MARCH 2017

- Involved the forecasting of retail sales with multiple store item combinations using past data to provide analytics and insights and help in prediction of optimal price to maximize sales using different regression models.

APPna Doctor Prescription Viewer

JUNE 2015 - SEPTEMBER 2015

- A registration portal for doctors and patients, where the doctor could upload prescriptions and dosages and approve appointments and a patient could schedule appointments, get reminders about a dose and view prescriptions and contact the doctor.
- A Third Year, semester project (team of two) which included a website and an Android app.
- Developed the complete website, front-end and back-end; Web portal for the doctors, Android application for the patients.

Wordy (<https://github.com/akash-vartak/Wordy>)

JANUARY 2016

- Made in Python, Wordy is a Personal Vocabulary Trainer.
- It displays a word and it's meaning as a notification.
- Can also provide pronunciation.
- Was made only for Linux based systems, specifically Ubuntu operating systems.

Simply Unique (<https://github.com/akash-vartak/Simply-Unique>)

DECEMBER 2015

- Purely using CSS, made a Dark-based theme for Adobe's Brackets Editor.

Achievements

Elected **Event Head** of the PICT ACM Student Chapter (PASC)

AUGUST 2015 - MARCH 2017

- Was in charge of organising, coordinating and team building for all activities in Pulzion'15 and Pulzion'16. Pulzion is the flagship annual technical event of PASC.

Research and Publications

A Survey on Promotional and Base Level Forecasting using ARIMA

Wrote a paper, in a group of 4, on Promotional and Base Level Forecasting and the use and application of ARIMA on Time Series data. Citation: Aakash Raina, AkashVartak, Prof. P. R. Patil, Yash Katariya, Yash Lahoti, "A Survey on Promotional and Base Level Forecasting using ARIMA", In International Journal of Computer Systems (IJCS), pp: 10-12, Volume 4, Issue 1, January 2017.