

Kartik Sirwani

BACKEND DEVELOPER ·

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“Be the change that you want to see in the world.”

Summary

Current Backend Developer in start-up company Nowfloats. 2 years experience specializing in backend/infrastructure, web development. Super nerd who loves Python, Linux and Node Js and enjoys to customize all of the development environment. Apart from this interested in applying data science and machine learning to new emerging world problems.

Work Experience

Nowfloats

Hyderabad

BACKEND DEVELOPER

June 2016 - PRESENT

- Lead developer of WMT. A tool which gives all the functions provided in adwords and facebook ad manager for running inorganic ads for merchants. Developed all the REST APIs, Architecture Dashboard and Micro Services. Technologies Used : C#, .Net, IIS, EC2, MongoDB, Rest Api, Javascript, HTML5, Bootstrap, Python
- One of the lead developers of NFX. This api project syncs merchant updates across different channels like facebook, linkedin, twitter, quickr and also gives analytics for those updates made. Made REST APIs, services and cron jobs. Technologies Used : NodeJs, Sails, Express, MongoDB, Route 53, EC2, Ubuntu, Nginx, PM2, SQS, Python
- Lead developer of Nowfloats Links health Service. This service recursively crawls all the links present in websites of customers and checks their health. Unhealthy Links (404, 502) are reported and removed later. Technologies Used : Python, Scrappy, MongoDB, SQS
- Developed Wildfire Acquisition Service. This service finds potential customers for buying our product. These customers are then targeted to generate revenue. Implemented the service using Machine Learning (Logistic Regression) and Pearson Correlation to train the classifier on previous data. Technologies Used : Python, Scikit Learn, Pandas, Matplotlib, MongoDB
- Developed Update Categorization Service. This service fetches all the product updates made by the customers on their websites and then categorizes them into offers, discounts, price. Applied a bag of keywords model and SVM classifier (Machine Learning) to classify the updates into categories. Technologies Used : Python, Scikit Learn, Pandas, Matplotlib, MongoDB
- Developed Update Spelling Correction Service. This service fetches all the product updates with spelling mistakes and suggests corrections. Used tensor Flow, NLTK, python enchant and wordnet along with Levenshtein distance to suggest spelling corrections. Technologies Used : Python, Wordnet, Tensor Flow, MongoDB, Enchant, NLTK

Certificates

INTERNATIONAL

- | | | |
|------|---|------------------|
| 2017 | Finalist , DEFCON 25th CTF Hacking Competition World Final | Las Vegas, U.S.A |
| 2014 | Finalist , DEFCON 22nd CTF Hacking Competition World Final | Las Vegas, U.S.A |
| 2013 | Finalist , DEFCON 21st CTF Hacking Competition World Final | Las Vegas, U.S.A |
| 2011 | Finalist , DEFCON 19th CTF Hacking Competition World Final | Las Vegas, U.S.A |
| 2012 | 6th Place , SECUINSIDE Hacking Competition World Final | Seoul, S.Korea |

DOMESTIC

- | | | |
|------|--|----------------|
| 2015 | 3rd Place , WITHCON Hacking Competition Final | Seoul, S.Korea |
| 2013 | Silver Prize , KISA HDCON Hacking Competition Final | Seoul, S.Korea |

Presentation

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

Jul. 2012

- Introduced CTF (Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Writing

A Guide for Developers in Start-up

FOUNDER & WRITER

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Facebook Page

Jan. 2015 - PRESENT

AhnLab

UNDERGRADUATE STUDENT REPORTER

- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

S.Korea

Oct. 2012 - Jul. 2013

Program Committees

2016 **Problem Writer**, 2016 CODEGATE Hacking Competition World Final

S.Korea

2013 **Organizer & Co-director**, 1st POSTECH Hackathon

S.Korea

Education

POSTECH(Pohang University of Science and Technology)

Pohang, S.Korea

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2010 - Aug. 2017

- Got a Chun Shin-Il Scholarship which is given to promising students in CSE Dept.

Extracurricular Activity

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER & PRESIDENT AT 2013

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.