

Himanshu Ojha

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Education

University of Virginia, Charlottesville VA – School of Engineering and Applied Science 2013 – 2016

Bachelor of Science, Computer Science; **G.P.A: 3.7;**

Employment and Internship Experience

Developer Internship

August 2014 to current

Center for Open Science, Charlottesville, VA

- Creating a spam detection service for projects and comments
 - Integrating SpamAssassin's spam detection and learning features with the Center's platform
 - Creating administration pages for easy management of spam projects and comments
- Designing and implementing a prototype for Project Versioning support
 - Designing and creating Postgresql database to handle deltas of projects
 - Creating Django REST endpoints to easily access historical versions of project
 - Updating Django functions to allow for easy use of this custom versioning support
- Adding Google Drive functionality to the Center's Open Science Framework

Engineering Internship

May 2014 to August 2014

9Lenses, Sterling, VA

- Worked within Dot Net Framework – developed sample web applications in C# and practiced with web api and MVC templates
- Wrote AngularJS directives for numerous parts of 9Lenses platform
- Integrated 9Lenses platform with Salesforce API's
- Tested 9Lenses platform functionality with SQL Server 2008 r2 sp2, MongoDB, and MySql databases
- Performed Jmeter and SoapUI tests on 9Lenses web api
 - wrote extensive groovy scripts to test API's

Projects

Interpreter

August 2014

Interpreter for Classroom Object Oriented Language (COOL)

- Lexer written in Python using Python Lex-Yacc. Parser written in NodeJS using Jison
- Type Checking done in Haskell. Operational Semantics written in Ocaml
- Passed all given test cases for duration of Programming Language course, for which interpreter was built.

HoosClass

August 2014

Designed and Developed own Web Application

- Server side written in Node.js. - allowed for scraping Lous List to attain data, running cron-like jobs to update data, containing REST endpoints to be used by front end, querying database, using websockets to transfer data between client side and server side, and sending out emails
- Client side written in AngularJS. Involved creating custom Angular directives, controllers, services, and filters.
- Used Postgresql to persist data

HackUVA

April 2014

Charlottesville, VA

- Designed and Developed Dining Menu Android App with 4 member group
- Created python web server hosted on Raspberry Pi
- Designed and implemented MySql database
- Wrote scripts to scrape UVA dining website in python

Favorite Classes

Programming Languages

Spring 2014

APMA 3501 – From Data to Knowledge (Statistical Analysis in R)

Fall 2014

CS 4102 – Algorithms

Fall 2014

CS 3240 – Advanced Software Development

Spring 2013

CS 2150 – Program and Data Representation

Spring 2013

Summary of Skills

- **Programming:**
 - Proficient: Python, Java,
 - Introductory understanding of: HTML/CSS, Javascript, PHP, Android App Development, Bash Scripting, Groovy, Node.js, C#, C++, R
- **Frameworks:** AngularJS (Javascript), Dot Net (C#), Django (Python), Express (NodeJS), Tornado (Python),
- **Applications:** Emacs, Eclipse, Geany, Microsoft Visual Studio 2013, Jmeter, SoapUI, LoadUI, PyCharm, RStudio

Awards, Memberships, and Certifications

University of Virginia SEAS Deans List

2013-2015

Capital One Summit for Software Engineers

2015