

ABHIRAG AWASTHI

PERSONAL INFORMATION

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EDUCATION

*Bachelor of
Technology
Selected
Coursework
GPA* 2008-2012 Dhirubhai Ambani Institute of Information and Com-
munication Technology
Specialized in Information and Communication Technology
Data Structures, Algorithm Design & Analysis, Systems Software, Computer
Networks, Probability & Statistics, Linear Algebra, Stochastic Simulation
7.5/10

LANGUAGES

*Intermediate
Proficiency
Basic Proficiency* Python, JavaScript, Clojure, Elixir, C#
Haskell, F#, GML, JavaScript, HTML, CSS, L^AT_EX

TOOLS

Web Framework Django, Flask
Data Analysis NumPy, Pandas, Matplotlib, Jupyter Notebook
Version Control Git
Game Engine GameMaker
Code Editor Emacs, Visual Studio, VS Code
OS Windows, Linux (NixOS, Ubuntu)

EXPERIENCE

*Systems Software
Engineer* Aug 2012 - May 2016 Hewlett-Packard
· Maintained core firmware services like Power Management, Firmware
Installation Management, Reset, Backup/Restore, Time
· Increased the fault tolerance of firmware upgrades and rollbacks by reducing
the probability of boot partition corruption caused by power failure
· Exposed system calls as safe to consume APIs and SNMP OIDs
· Acted as the first point of contact for crash dump analysis
· Resolved defects faced by customers with multi-million dollar contracts

*Founder /
Programmer* Jun 2016 - Dec 2017 Mockint
· Designed and developed <https://mockint.in>

PROJECTS

Professional _____
2012 · **Jedi Firmware** (C#, .NET Compact Framework, WinDbg)
⋮ Firmware for Hewlett-Packard LaserJet printers
2016

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- 2016 · [Interactive Résumé](#) (GameMaker, GML)
Interactive version of my résumé in the form of a platformer game
 - [Résumé API](#) (Python, Flask, AWS Lambda, Zappa)
My résumé as a serverless REST API
 - 2017 · [Mockint](#) (Python, Django, JavaScript, Microsoft Bot Framework)
Platform to prepare for technical interviews
 - [Résumé Plot](#) (Python, Matplotlib, Jupyter Notebook)
My résumé as a plot of Tupper's self-referential formula
 - [Interface to Indian Railways](#) (Python, Pandas, Folium)
Visualization of route and live running status of trains in India
 - [We are in this together](#) (JavaScript, Express, Socket.IO)
Web experiment to visualize the number of active website users in real-time
 - [Résumé over SMS](#) (Python, Django, Twilio)
Message OPTIONS to +19728667970 to see it in action
 - [Normal Distribution Joyplots](#) (Python, Seaborn, Jupyter Notebook)
Visualizing location-scale transformation of standard normal distribution using joyplots
 - [Visualization of Retail Prices](#) (Python, Matplotlib, Jupyter Notebook)
Visualizing retail prices of essential commodities in India
 - [ASCII art as a service](#) (JavaScript, Express)
REST API for ASCII art

RESEARCH

2014 Using Web Page Segmentation to Mitigate Negative Effects of a Subpar Web Design on Print-Quality

An attempt towards improving the typography and signal to noise ratio of printed web pages

*(Intellectual
Property of
Hewlett-Packard)*

February 7, 2018