BITS Pilani, KK Birla Goa Campus
Course:BE(Hons) Computer Science
CGPA: 7.1/10
Graduated : July, 2017

PRATIK SINGHAL

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WORK EXPERIENCE

Software Development Engineer   Amazon Development Center, Bangalore   June- Current

- Working on backend services using Java along with spring.

Software Developer, Intern   Intuit IDC. Bengaluru   Summer 2016
Amazon web services Infrastructure setup automation
- Developed command line tool to automate deploying Docker instances on Amazon web services, running tests using Jmeter and generate reports.
- Implemented REST based services on top of above command line interface.
- Developed a Web application utilizing MEAN stack using the above developed REST services.

Google summer of Code, 2015   FreeBSD Foundation   Summer 2015
- Developed drivers for Direct memory Access (DMA) and AC'97 codec for FreeBSD kernel
- Fixed bugs in current MMC driver implementation and improved transfer speed by 37%.
- Added support for DMA in existing implementation of MMC driver

TECHNICAL EXPERIENCE

Projects
- **Building a checkpoint enabled virtual environment:** -
    1) Ported the existing implementation of Libckpt check pointing library from 32 bit to 64 bit. (C++)
    2) Implemented a framework for check pointing Java based applications using DMTCP check pointing.
- **Cluster computing on Raspberry Pi:** -
    1) Built a framework for using a cluster of Raspberry Pi to parallelize processes performing computation using Python.
    2) Observed a gain of 24% in speed of computation using 3 Raspberry Pi's
- **Mappled: -** Built an application for downloading course content automatically from BITS Goa's servers automatically using C#.
- **BITS-OS: -** Built a mini Operating system using C, assembly for i386 architecture.
- **MIT Jos Kernel: -** Implemented paging, and process management in MIT Jos Kernel. (6.828 Operating systems engineering lab)

ADDITIONAL EXPERIENCE AND AWARDS
- President, ACM Chapter BITS Pilani KK Birla Goa Campus (Dec 2014 – Dec 2015)
- Secretary, Department of Computer Science, BITS Pilani KK Birla Goa Campus (Aug 2014 – Aug 2015)
- **Ranked 38 nationally in Google Code Jam round 1A, 2016** out of 2200 participants (A yearly competitive programming contest organized by Google.
- **Won Hackathon** organized by Computer Science Department, BITS Pilani KK Birla Goa Campus. (2014)
- **Taught Data structures and Algorithms** under Technology Incubator Program, BITS Pilani, Goa Campus.(2014)
- **Taught Operating System concepts** under Technology Incubator Program, BITS Pilani Goa Campus. (2015)

- **Taught Object oriented programming using Java** under Center for technical education, BITS Pilani, Goa Campus. (2014)
- **Secured 4th prize in Bits-n-Bytes,** (a competitive programming competition organized by Department of Computer Science, BITS Pilani Goa Campus (2014)

Languages and Technologies
- Languages (In order of proficiency) C, C++, Java, Python,JavaScript
- Version control systems: Git, subversion.