Ashik Ahmed

H# 192, R# 2, Mirpur DOHS, DHAKA, BANGLADESH +8801711961024, jaharapi@protonmail.com

I am a DevOps engineer. I have more than 15 years experience working on cloud computing architectures on Linux platforms. I have infrastructure tooling, troubleshooting, system integration. As a DevOps & fullstack developer my primary objective is to ensure developer productivity and ensure system reliability in the mean time PostGreSQL Indexing **Functions PostGIS** SQL-Query awk

built my career with start-ups to Bigtechs by developing still maintain faster development cycle scripting GraalVM shell go lang

Command Line git ssh wireshark ip netstat ps

Linux Archlinux alphine systemd

JVM clojure Groovy jetty

docker **KVM** kubernetes Virtualiztoin

Made a successful server based deployment of Audio & video codecs (G729AB, AMR-NB, H263, H264) transcoding on debian based systems. Adopted of Groovy as shell

script replacement. Restful API development with Reactjs worked with clojure, scala,

phyton flux, websocket, gevent, sqlalkalemi. Implemented CPS and actor model for

Implemented Virtual Desktop Environment(VDE) for University Labs using KVM Libvert virtualization on Archlinux based hypervisor that hosts virtualized linux and

windows desktops and docker for containerization on the server and desktop is

replaced by ARM based SoC with vnc & rdp clients installed where students can access remote desktops and spawn docker based services on remote services

I have worked on device drivers on Linux kernel on Android based mobile handsets and patched linux kernel with device specific changes based on git, As well as fork and

Developed and maintained mediation servers which was in a nut shell modern days micro services with lot of bells and whistle with Java, Oracle SQL, shell scripting, jetty,

linux command line utilities - awk, ssh port forwarding and reverse proxy for remote

As a devOps on audio conferencing systems and I have worked with liunx, iptables, shell scripting, routing UDP packets over all type network environments, ssh and

routing with load balancing and priority queues, media gateways on CentOS and

Fontend is developed with reactjs and webrtc with google doc like collaboration

platform for data scientist and students. Developing backend services with ingress API

gateway, kafka for messaging, groovy for connecting postgresql, kafka and fontend.

Packet Inspection and Auditing for malicious activities and Lawful Interception in Linux Kernel Space using eBPF technologies and systrace using shell scripting later

based data visualization using d3.js and Groovy based RESTful API backend.

successfully used groovy on GraalVM and PostGreSQL query optimization using join

planing and indexing also used redis cluster for cashing frequent data. Develop react

Collaboration between teachers and students is hard using web Camera and limited zoom experience. Data scientist uses virtual notebooks to collaborate between themself. I have develop similar experience that would rather focus on student

productivity that made a simple and elegant way of writing equation on web at the

actor modle in scala to make it scalabe and configuration managed side mongodb

End to end low latency network connectivity solutions using network UDP whole

and video (SRT) but also in http3 (QUIC) where as streaming Vedeo providers like

Google, zoom, facebook, twitch uses of TCP-based protocls like RTMP thus increase

Tutorial: Communication Is Key - Understanding Kubernetes Networking - Jeff Poole,

Online eBPF and Kubernetes: Little Helper Minions for Scaling Microservices - Daniel

Webinar: Kubernetes and Networks: Why is This So Dang Hard?

Container Networking From Scratch - Kristen Jacobs, Oracle

Building a container from scratch in Go - Liz Rice

Differentiable Programming with Julia by Mike Innes.

Computer Science at the University of Oxford.

The Beauty of Bézier Curves Freya Holmér

ACM SIPGPLAN by Matt Bauman, Julia Computing

student on MIT Probabilistic Computing Projects

Erlang Master Class, Joe Armstrong

Parsing With Derivatives David Nolen

MIT 6.001 Structure and Interpretation

instruments.com

Pixar in a Box - Khan Academy

Description Language (HDL)

1998-2000

Introduction to Computer Graphics - UC Davis Academics

Logic Programming, Core. Async Timothy Baldridge

Public / Private Keys and Signing - Anders Brownworth

Samsung Device driver programming on SNMC

Siggraph2019 Geometric Algebra

Online Intro + Deep Dive: Kubernetes (Network) SIG - Tim Hockin, Google

Kubernetes Networking Intro and Deep-Dive - Bowei Du & Tim Hockin, Google

Tutorial: Device Tree (DTS), Linux Board Bring-up and Kernel Version Changing 2018

Introduction to Computational Thinking MIT 18.S191 aka 6.S083 aka 22.S092, Fall

How I Design Programs, Jeremy Gibbons, Professor of Computing in the Department of

The impact of differentiable programming: how ∂P is enabling new science in Julia

Intro to Parallel Programming. John Owens University of California, Davis

The Do's and Don'ts of Error Handling • Joe Armstrong • GOTO

Binomial distributions and Bayesian view by Grant Sanderson, MIT

Probabilistic scripts for automating common-sense tasks by Alexander Lew PHD

Delimited Continuations for Everyone by Kenichi Asai Ochanomizu University

Tutorial: Building the Simplest Possible Linux System - Rob Landley, se-

Online 8.01x - MIT Physics I: Classical Mechanics by Walter Lewin

Online Online Use Least Squares method for Mathematically Darkened Colors.

My CGPA was 3.69 out of 4, I have participated NCPC and ICPC programming

contests. My final project was - Design project modeled and verified a multi-cycle and

I was raised and born on noble family in Bangladesh. My late father was an liberwation

war veteran. I passed secondary and higher Secondary from Rajshahi Cadet College.

5-stage pipelined version of 32-bit RISC processor - MIPS - with Verilog Hardware

2015 Introduction to Dependent Type Theory — Robert Harper University of Oregon

Demystifying Linux MIPI DSI Subsystem - Jagan Teki, Amarula Solutions

"Stop Writing Dead Programs" by Jack Rusher (Strange Loop 2022)

Digital Design and Computer Architecture, ETH Zürich, Spring

punching technologies which is becomming standard in 2021/2022 not only for voice

where computer can assist students helping with their homework.

nodejs with reactjs fontend with webrtc.

network latency.

Vivint Smart Home

Borkmann, Cilium

2020 edition

same speed on pen and paper. Moreover I made it visually more appealing by making use of digital typography and making use of computer animation and develop ways

configure remote server using emacs editor. Worked with highly concurrent softswith

and services for monitoring alarms and IP packet tracing using wireshark

server login and vi as remote editor. As well implemented push and pull based systems

merging as well as merge conflicts, mastered on taking systrace I also received

leadership training for very big teams of developers

maintain specific version then merge it to upstream when stable. Applied three way git

reactjs

concurrency using go lang and erlang.

vi emacs

ubtuntu

jdbc

ingress

animation

1 129 Software Global

Consultancy //SGC (science 2018)

17 Fractals Labs

0 16 Lead Engineer -SAMSUNG RED

Institute Bangladesh

0 13 System Engineer

at GrameenPhone. (2007-2009)

1 117 Software Engineer - GENUITY

(2006-2007)

Systems Limited

0 35 Web based audio

E video conferencing

4 15 Deep packet

Inspections (DPI)

0 2 Online classes on

6 225 Serverless end to end video

processing v2 (from

6 20 Serverless end to

conferencing and live

2022 Online

2022 - Online

2021 - Online

2020 - Online

2019 - Online

2019 - Online

2018 - Online

2018 - Online

2017 - Online

2017 - Online

2017 - Online

2016 - Online

2015 Online

2015 - Online

2015 - Online

2015 - Online

2015 - Online

2014 - Online

2014 - Online

2014 - Online

2011 - Delhi

127 BSC on Computer

Engineering.

American International

University

0 25 Personal

Summery

Bangladesh (AIUB) (2001-2005)

end video

Streaming vl

(2006-2012)

2013)

conferencing and live Streaming with Edge

Virtual notebooks

(2011-2013)

(2016-2018)

d3.js react hooks redux