Baber Rehman

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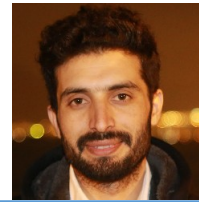
SUMMARY

I wish to play the leading role in the well-being of the humanity. Love to explore what's happening in the box instead of seeing things as a black box. Have a quality to work and adjust in dynamic environments.

ACADEMICS

- PhD in Computer Science
  - *University of Hong Kong (2018 – March 2023 (expected))*
  - *Research Area: Programming Languages, Type Systems*

- Bachelor in Computer Science (CGPA 3.81/4, 2nd Position)
  - *PUCIT, University of the Punjab, Lahore, Pakistan (2011 – 2015).*

EMPLOYMENT EXPERIENCE

- **Resident Tutor**
  New College, The University of Hong Kong (Sep 2019 – Present)
  - Duties include to maintain a lively environment for the students and assist them where needed, both acadmically and socially. Main etho of New College includes to produce responsible citizens of the world.

- **Senior Software Engineer – Team Lead**
  CloudPlex.io Pvt Ltd (Platalytics Inc.), Lahore, Pakistan (Feb 2018 – Aug 2018).
  - Have more focus on the automation and putting best DevOps strategies together to achieve the organization goals. Worked in Cloud Computing (DevOps) at Platalytics Inc. Worked in GoLang on building a provisioning and deployment platform called Cloudplex using dockers and chef services. Have worked in AWS and Azure GoLang API. Hand on experience on AWS (EC2, S3, VPC, RDS).
  - Lead a remote team from Argentina. Also actively participating in interviewing candidates technically for the backend team.

- **Senior Software Engineer – Team Lead**
  Platalytics Inc. (Cloudplex), Lahore, Pakistan (May 2017 – Feb 2018).
  - Have more focus on the automation and putting best DevOps strategies together to achieve the organization goals. Worked in Cloud Computing (DevOps) at Platalytics Inc. Worked in GoLang on building a provisioning and deployment platform called Cloudplex using dockers and chef services. Have worked in AWS and Azure GoLang API. Hand on experience on AWS (EC2, S3, VPC, RDS).

o Lead a remote team from Argentina. Also actively participating in interviewing candidates technically for the backend team.

- **Software Engineer**
  Platalytics Inc., Lahore, Pakistan (June 2015 – May 2017).
    o Worked in Cloud Computing (DevOps) at Platalytics Inc. Have worked in GoLang on building provisioning and deployment platform using dockers and chef services called **Cloudplex**. Have worked in AWS and Azure GoLang API. Hands on experience on AWS (EC2, S3, VPC, RDS).

- **Visiting lecturer**
  PUCIT, University of the Punjab, Lahore, Pakistan (Oct 2015 – June 2016).
    o <u>Fall 2015</u>
      Computer organization and Assembly Language course.
    o <u>Spring 2016</u>
      Enterprise Application Development course (C#/MVC4).

- **Intern**
  Mentor Graphics, Lahore, Pakistan (Jul 2014 – Sep 2014).
    o Worked in Java technology and used eclipse as a tool. Explored an efficient java GUI library i.e. SWT**.** Also debugged the source code of Sourcery Codebench (an eclipse based IDE used in Mentor Graphics) and removed few of its GUI bugs.

- **Teacher Assistant**
  PUCIT, University of the Punjab (Oct 2013 – Jul 2015)
    o Discrete Mathematics, Data structures and algorithms, Data Base, System Programming, and Enterprise Application Development courses. It enhanced my evaluation and mentoring skills.

- **Research Assistant**
  PUCIT, AIM Lab, University of the Punjab (Jun 2013 – Oct 2013)
    o Worked on business process management research repository.

COMMUNITY SERVICE

- Accepted invitation to serve as AEC in **ECOOP** 2023
- Artifact Evaluation Committee **POPL** 2023
- Artifact Evaluation Committee **APLAS** 2022
- Artifact Evaluation Committee **ECOOP** 2022
- Extended Review Committee **ECOOP** 2022
- Student Helper PLDI 2021

TECHNICAL SKILLS

- Golang
- Micro-services / API's
- Computer Networking / VPC / VPN / PfSense
- Chef / Ansible
- Amazon Web Service (EC2, VPC, S3, RDS)
- Microsoft Azure (VNet, Virtual Machines)
- Coq Theorem Prover
- Mongo DB
- Jenkins / Git
- Docker / Kubernetes
- Scala
- Haskell
- Bash / Python / Ruby

SCHOLARSHIPS

- Funding by ACM PLMW@ICFP to attend ICFP'19 in Berlin, Germany
- Pilot Scheme Funding by the University of Hong Kong to attend OPLSS'19 in Eugene, USA
- Partial funding by OPLSS'19 to attend OPLSS'19 in Eugene, USA
- University Postgraduate Fellowship for 4-years PhD by the University of Hong Kong (2018 – 2022)
- Merit Base Scholarship three times by PUCIT, University of the Punjab

KEY ACHIEVEMENTS

- Promoted to Senior Software Engineer and Team Lead after two years of professional experience at Platalytics Inc., Lahore, Pakistan which normally takes three years.
- 2nd position (2/191) in BS Computer Science (Batch 2011 – 2015) at PUCIT, University of the Punjab, Lahore, Pakistan.
- 2nd position in Belal Hashmi programming competition SOFTEC'15 ACM-ICPC held in FAST-NU Lahore (Team Code:Threads).
- 2nd position in speed programming competition SOFTEC'14 ACM-ICPC held in FAST-NU Lahore (Team Code:Threads).
- 2nd position in speed programming competition APTA'14 held in GCU Lahore (Team Code:Threads).

EXTRA CURRICULAR / SOCIAL ACTIVITIES

- Postgraduate Student's Representative at the Department of Computer Science, University of Hong Kong (Sep 2018 – Aug 2019).
- Member of Postgraduate Task Force on Accomodation Needs, Graduate School, Univeristy of Hong Kong (Oct 2018 – Aug 2019).
- Committee member at Photography Team, New College, HKU (Sep 2018 – Aug 2019).
- Founding Member at Ghoomo Phiro Pakistan Adventure Club (Dec 2014 – Aug 2018)
    o Ghoomo Phiro Pakistan Adventure Club was established in 2014. The main idea behind this company is to promote tourism and cultural diversity in Pakistan. We successfully have organized many tours in the northern areas of Pakistan. Also we got funding from provincial Government of Khyber Pakhtunkhwa, Pakistan, for this purpose and we are working successfully as a team to achieve our objective.
- Class Representative at PUCIT, University of the Punjab (Oct 2013 – July 2015)

- Advisory Board Member at Blood Donor Society, PUCIT (Jan 2015 – July 2015)
- Vice president and Treasurer at Literary society, PUCIT (Oct 2012 – July 2015)
- BCSF11M cricket team player (Right Arm Medium Fast Bowler)

PUBLICATIONS

- Union Types with Disjoint Switches ECOOP 2022. **Baber Rehman**, Xuejing Huang, Ningning Xie, Bruno C. d. S. Oliveira

- The Duality of Subtyping ECOOP 2020. Bruno C. d. S. Oliveira, Shaobo Cui, **Baber Rehman**