






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

2018 - present	PhD in Computer Science at University of Hong Kong , Hong Kong Research Area: Programming Languages, Type Systems, Functional Programming, Object-oriented Programming Supervisor: Dr. Bruno C. d. S. Oliveira	
2011 - 2015	Bachelor's Degree at University of Punjab , Lahore, Pakistan Major: Computer Science	(CGPA: 3.81/4.0)
2007 - 2009	Class 12th at BISE Abbottabad, Pakistan	(81%)
2009 - 2011	Class 10th at BISE Abbottabad, Pakistan	(80%)

PROFESSIONAL EXPERIENCE

Resident Tutor Jan 2021 - present
New College, The University of Hong Kong

- Duties include to maintain a lively environment for the students and assist them where needed, both academically and socially. Main ethos of New College includes to produce responsible citizens of the world

Junior Resident Tutor Sep 2019 - Dec 2020
New College, The University of Hong Kong

- Duties include to maintain a lively environment for the students and assist them where needed, both academically and socially. Main ethos of New College includes to produce responsible citizens of the world

Senior Software Engineer (DevOps) – Team Lead May 2017 - Aug 2018
CloudPlex PVT LTD, Lahore, Pakistan

- Lead one local team in Lahore and one remote team located in Argentina
- Conducted technical interviews of candidates for the backend team
- Held meetings with clients for requirement gathering, demos, and delivery
- Build a cloud platform to automate cloud orchestration and deployment
- Worked with AWS and Azure cloud services including VPC, S3, EC2, VNet
- Worked on automating the configuration of firewalls (PfSense and Fortinet)
- Tools and technologies: Golang, Chef, Ansible, Networking, Docker, Shell scripting, Cloud Computing

Software Engineer (DevOps)

Jun 2015 - Apr 2017

Platalytics Inc. (CloudPlex PVT LTD), Lahore, Pakistan

- Conducted technical interviews of candidates for the backend team
- Held meetings with clients for requirement gathering, demos, and delivery
- Build a cloud platform to automate cloud orchestration and deployment
- Worked with AWS and Azure cloud services including VPC, S3, EC2, VNet
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Visiting lecturer

Oct 2015 - Jun 2016

University of the Punjab, Lahore, Pakistan

- Fall 2015: Computer organization and Assembly Language course
- Spring 2016: Enterprise Application Development course (C#/MVC4)

Intern

Jul 2014 - Sep 2014

Mentor Graphics, Lahore, Pakistan

- Worked in Java programming language and used eclipse as a tool
- Explored Java GUI library i.e. SWT
- Did debugging of source code of Sourcery Codebench (an eclipse based IDE used in Mentor Graphics) and removed few of its GUI bugs

Teacher Assistant

Oct 2013 - Jul 2015

University of the Punjab, Lahore, Pakistan

- Discrete Mathematics
- Data Structures and Algorithms
- Database Systems
- System Programming
- Enterprise Application Development

Research Assistant

Jun 2013 - Oct 2013

AIM Lab, University of the Punjab, Lahore, Pakistan

- Worked with business process management research repository

TECHNICAL SKILLS

Functional Programming	Object-oriented Programming
Type Theory	Coq Theorem Prover / Gallina
Golang	Amazon Web Service (EC2, VPC, S3, RDS)
Scala	Microsoft Azure (VNet, Virtual Machines)
Haskell	Computer Networking / VPC / VPN / PfSense
Chef / Ansible	Jenkins / Git
Docker / Kubernetes	Mongo DB / SQL
Bash / Python / Ruby	

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

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 (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 Accommodation Needs, Graduate School, University of Hong Kong (Oct 2018 – Aug 2019).
- ❖ Founding Member at Ghoomo Phiro Pakistan Adventure Club (Dec 2014 – Aug 2018)
 - 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 AND ARTIFACTS

- Baber Rehman, Xuejing Huang, Ningning Xie and Bruno C. d. S. Oliveira. 2022. “Union Types with Disjoint Switches”. In *European Conference on Object-Oriented Programming (ECOOP)*.
 - Baber Rehman, Xuejing Huang, Ningning Xie and Bruno C. d. S. Oliveira. 2022. “Union Types with Disjoint Switches (Artifact)”. In *European Conference on Object-Oriented Programming (ECOOP)*.
- Bruno C. d. S. Oliveira, Cui Shaobo and Baber Rehman. 2020. “The Duality of Subtyping”. In *European Conference on Object-Oriented Programming (ECOOP)*.
 - Bruno C. d. S. Oliveira, Cui Shaobo and Baber Rehman. 2020. “The Duality of Subtyping (Artifact)”. In *European Conference on Object-Oriented Programming (ECOOP)*.