

Debasish Chakroborti (Joy), Ph.D.

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Employment History and Projects

- 2024-... 🟢 **Faculty at the School of Computing and Digital Innovation, Saskatchewan Polytechnic** - Conducted classes in Cloud Computing and Blockchain Program.
- 2025-25 🟢 **Consultant (AI Automation Team), Cloud Linux Software, Inc., a Delaware Corporation, USA.** - Provided expert advice on developing an AI-based automated backporting tool.
- 2024-24 🟢 **Sessional Lecturer, Department of Computer Science, University of Saskatchewan.** - Delivered lectures and conducted labs on topics in Computer Science.
🟢 **Software Engineer (Intern/Contractual), Push Interactions.** - Enhanced the **Wilger** website at <https://www.wilger.net>.
- 2023-23 🟢 **PhD Intern (Remote), Synesis IT GmbH, Germany.** - Conducted API planning and managed big data databases for Traffic Management **Intelligent Transportation Systems**.
- 2022-24 🟢 **GSA Office Coordinator (Part-time), Graduate Students' Association.** - Maintained the **GSA website** at <https://gsa.usask.ca>, added new web pages based on services and events. HTML and JavaScript.
🟢 **Software Engineer (Part-time), Saskatchewan Education Leadership Unit.** - Maintained the **Placement Application** at <https://placement.usask.ca>. Developed a matching model for Teacher Candidates and Mentors.
- 2017-24 🟢 **TA, RA, Masters and, PhD, UofS, Plant Phenotyping and Imaging Research Centre, Global Institute for Food Security.** - Developed **RISP and RISPs** data re-usability algorithms within WfM System. Developed tools in Software Engineering and Image Processing domains such as **Backzer, ReBack (CNN), BackTrans (LLM)** and **BackSlice** for analyzing, recommending, and adapting backporting pull-requests and **InsCount** (based on UNet) for counting dense organs in plant images.
- 2013-24 🟢 **Lecturer, Computer Science and Engineering Discipline, Khulna University, Bangladesh.** - Conducted classes and research, and implemented the websites for Khulna University (ku.ac.bd) and ICCIT (iccit.org.bd/2013/). Html, css, JavaScript, R, Python, Java, .Net, Apache Web Server, Github.
- 2013-13 🟢 **Software Engineer, Nascenia Limited, Bangladesh.** - **SnapKnot.** Developed a centralized wedding photographer directory website (<https://snapknot.com/>). Implemented backend functionality for searching photographers and couples using Ruby on Rails, ASP.NET, C#, Git.
- 2012-13 🟢 **Software Engineer, Divine IT Limited, Bangladesh.** - Worked on various ERP systems (<https://www.divineit.net>) including Lines Pay, Sphere, and Prism. Django, Mysql, Postgresql, sqlite, SVN.

Activities and Achievements - Awards, Volunteering

- 2017-23 🟢 **Over ten scholarly articles in renowned journals and conferences, including ICSE, ICPC, MSR, JSME, EMSE, EICS, Big Data, and ASE.**
- 2008-23 🟢 **Carl McCrosky Innovation Scholarship for Graduate Studies 2023, GSA Mark Kroecker Exceptional Student Leadership Award 2023, Saskatchewan Innovation and Opportunity Scholarship, Ph.D. Citizenship Award 2024, Departmental Scholarship, SOAR, SEMLA, CSGC Best Poster Awards, Ivan and Margaret Toutloff Award, Graduate Travel Awards for Seattle-Melbourne- Montreal Visits, Innovation Award Khulna, Deans Merit Scholarship Khulna University.**
- 2017-22 🟢 **President** of the Computer Science Council, **Volunteer Lead at Digitized-Technology** event for Saskatchewan students, **Vice President-Social, Vice President-Admin** of the CSGC-UofS, **Member** of Research Fest Committee-UofS, **Vice President – Events** of the Bangladeshi Association-Usask, Volunteer Lead at SSPP, Volunteer at **Global village**, Volunteer at **Folk-fest**, GSA rep for the **Associate Dean Students Search Committee**, GSA rep on **Arts and Science Planning Advisory Committee**.

Education

- 2020-24 🟢 **Ph.D., Computer Science, University of Saskatchewan, Canada**
- 2017-19 🟢 **M.Sc., Computer Science, University of Saskatchewan, Canada**
- 2008-12 🟢 **B.Sc., Computer Science and Engineering, Khulna University, Bangladesh.**