

Palak Jain

the.palakj@gmail.com •

EDUCATION

Reed College, Portland, OR, USA

- Bachelor of Arts (B.A.) in Mathematics/Computer Science
 - GPA in Computer Science: 3.8
- Commendation for Excellence
 - For academic performance during 2017-2018.

Aug 2014 – May 2018

United World College, Pune, MH, India

- International Baccalaureate (I.B.) Diploma

Aug 2012 – May 2014

PROGRAM COMMITTEES

IEEE S&P 2020 Shadow PC

- Subreviewer

Jan 2020

RESEARCH EXPERIENCE

Indian Institute of Science, Bengaluru, KA, India

- Research Intern, Department of Computer Science and Automation
 - Supervisor: Dr. Bhavana Kanukurthi
 - Focus: Cryptography

Nov 2018 – Present

Boston University, Boston, MA, USA

- Undergraduate Research Assistant, Computer Science Department
 - Project: Fuzzy Password Authenticated Key Exchange
 - Supervisor: Dr. Adam Smith
 - Focus: Cryptography

Jun 2018 – Jul 2018

Reed College, Portland, OR, USA

- Senior Thesis: *Oblivious Data Structures*
 - In this thesis I explain several different categories of oblivious RAM constructions. Additionally, I describe the basics of what constitutes an oblivious data structure, a new category of oblivious constructions that was introduced just few years ago.
 - Thesis Advisor: Dr. Adam Groce
- Undergraduate Research Assistant, Mathematics Department
 - Project: Composition Framework for Rational Protocols
 - Supervisor: Dr. Adam Groce
 - Focus: Cryptography, Game Theory
- Undergraduate Research Assistant, Mathematics Department
 - Project: Linear Systems of Divisors on Networks
 - Supervisor: Dr. David Perkinson
 - Focus: Integer-Point Enumeration in Polyhedra, Representation Theory, Graph Theory, Combinatorics

Aug 2017 – May 2018

May 2017 – Aug 2017

May 2016 – Aug 2016

AWARDS & SCHOLARSHIPS

- Davis United World College (UWC) Scholars Program: Reed College
Prestigious four-year scholarship awarded to students with outstanding academic abilities and a capacity to build relationships with people from different backgrounds.
- Reed College Science Research Fellowship
For research with Prof. Groce
- Reed College Mathematics Travel Fellowship
For attending CRYPTO 2017
- Reed College Science Research Fellowship
For research with Prof. Perkinson
- K.C. Mahindra UWC Scholarship
Competitive two-year scholarship designed to bring students with an outstanding academic record to Mahindra UWC of India.

2014 – 2018

May 2017 – Aug 2017

2017

May 2016 – Aug 2016

2012 – 2014

WORK EXPERIENCE

Tinystep, Bengaluru, KA, India

- Front End Developer
Developed the frontend for an app for teachers at Klay prep schools across India.

Feb 2019 – Jun 2019

Reed College, Portland, OR, USA

- **Individual Tutor** Aug 2015 – May 2018
Computer Science Fundamentals I, Computer Science Fundamentals II, Algorithms and Data Structures, Computability and Complexity, Calculus, Introduction to Analysis, Discrete Structures, Linear Algebra, Multivariable Calculus, Abstract Algebra.
- **TA : Computer Science Fundamentals I** Aug 2016 – May 2017
 - Staffed the tutoring centre twice weekly.
 - Assisted with computer science lab weekly.
 - Graded homework assignments and tests as needed.
- **Grader : Introduction to Analysis** Aug 2017 – Dec 2017
Graded weekly homework assignments for the introduction to analysis course covering field axioms, the real and complex fields, sequences and series. Complex functions, continuity and differentiation; power series and the complex exponential.

Reed Research Reactor Aug 2015 – May 2018

- **Licensed Reactor Operator**
 - Licensed by the *United States Nuclear Regulatory Commission* following a year long training program.
 - Operated the nuclear reactor.
 - Conducted experiments with neutron activation analysis.
 - Calibrated and performed maintenance on facility equipment and components.
 - Conducted routine safety inspections and record keeping.
 - Gave public tours.
 - Trained reactor license candidates.

Pack of 2

Karnataka, India

- **Graphic Design Intern at Pack of 2**, a graphic design studio that specializes in corporate identity and packaging design. May 2014 – Aug 2014
 - Collaborated with team at daily brainstorming meetings for ongoing projects.
 - Assisted in the creation of designs for ongoing projects, working closely with the artistic director.
 - Researched and analysed appropriate design options for client requests, developed design inspiration boards for upcoming projects.
 - Assisted with preparation for and attended client meetings.

Mahindra United World College of India

Pune, MH, India

- **Head Mathematics Tutor** Aug 2013– May 2014
 - Familiarised myself with course material for all math courses taught at the school.
 - Scheduled drop-in tutoring and organised one-on-one tutoring.
 - Organised end of the year review sessions.
 - Implemented strategies to improve visibility and efficacy of tutoring services.
 - Conducted training sessions on approachability, inclusivity and best tutoring practices.

PROFESSIONAL AFFILIATIONS International Association for Cryptologic Research, 2017 – Present
▪ Member

LANGUAGES Hindi, English

SKILLS L^AT_EX, R, Python, C, SML, Golang, Adobe Photoshop, Adobe Illustrator, Microsoft Word, Microsoft Excel, Microsoft PowerPoint.