

Ruchira Bomiriya

Profile

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Background

I completed my Advanced Levels in 1988 from *Royal College* with three A's and one C. I then worked as a Pre-University Research Associate (PRA) at the *Institute of Fundamental Studies* (IFS) in Hantana, Kandy under the leadership of Professor Cyril Ponnampereuma. I had the opportunity to work with the Data General MV/7800 Eclipse minicomputer in the Computer Division at IFS. This is where I first learned C.

I took the Achievement Tests (ACT) of the United States and obtained *three perfect scores* (800 each for Mathematics, Physics and Chemistry). In 1990, I left to study at Stevens Institute of Technology, New Jersey, USA. At Stevens, I was a co-op student making it possible for me to earn valuable practical experience at real jobs and additional income to supplement my academic scholarship.

Since 1991, I worked in the Research and Development department at *Maidenform, Inc.*, a lingerie manufacturer, helping them develop the *Automated Lace Cutting Machine*. This innovative machine included a camera which took continuous pictures of the lace material and used dynamic pattern recognition techniques to identify precise locations that served as anchors used for cutting by an electromagnetic press. These machines were later deployed in their factory in Jacksonville, Florida for production. *This is the project that I remember most fondly as it was pure innovation and problem solving to develop the software for the machine.*

I first learned C++ during my work at Maidenform and invested significant time on it as I found the language fascinating as it attempted to provide sophisticated abstraction while optimizing for runtime performance. Later, my two longest jobs have been in C++ at Salomon in New York and at Cirrato Technologies of Stockholm.

I graduated with a *Bachelor of Engineering degree in Computer Engineering with a minor concentration in Philosophy*. My education in the *Humanities* would later serve me well.

My first job after graduation was at *Salomon Brothers, Inc.* (later became Salomon Smith Barney), a Wall Street financial company specializing in bonds. I first worked in the *Business Technology Organization* in the *Global Database Engineering Services* department. Then, I moved on to the *Global Fixed Income Technology* department which developed software and supported the Trading Desks.

I returned to Sri Lanka in the latter part of year 2000. This began my *7 year stretch of shorter engagements* switching between *project management* and *technical work* which culminated in the decision to start a career in *independent consulting*.

Since 2007, I worked with *Cirrato Technologies*, a Swedish startup based in Stockholm, remotely from Sri Lanka for six years. The company developed and sold an innovative system called *Direct Print Technology* which replaced print spooler technology. The company was later acquired by the US-based company LRS, Inc.

In 2011, I was elected as the Chairman of the *ICT Advisory and Management Committee* of the Royal College Union and continued in this role for five years. I learned a lot while helping my alma mater in this voluntary capacity.

After the end of the Swedish engagement, my consulting practice suffered as I had been concentrating on one client and had not developed the business, particularly in the marketing aspect. In 2015, I decided to join the *Postgraduate Institute of Management (PIM)* to pursue an *MBA*. I actively participated in all required classes but did not sit for exams after the first year.

Last year, I had the opportunity to work as a *Strategy Consultant* for a cloud platform company (Platformer which was acquired by WSO2 in May 2021) specializing in Kubernetes, the Google initiated operating system for the cloud. I also was exposed to The Go Programming Language. I saw how *Go* was trying to address what would be considered deficiencies and weaknesses in C++ and at the same time bringing concurrency to the fore with language level abstractions to seamlessly tackle multi-core and multi-processor architectures. The language had elegance and simplicity which is the result of sophisticated thought and proved a natural fit for the scaling inherently necessary for the cloud.

I thrive in environments where *innovation* is achieved by *small teams of bright and competent individuals*. I am very strong in *analytical skills* and *design* utilized in *problem solving* and am an *outside the box thinker*. My analytical abilities and conceptual grasp helps me understand and clarify issues and also makes my writing clear and useful. I am now looking for an opportunity which will allow me to use my talents, skills and interests to serve a suitable client for significant positive impact.

Personality Type

The *Myers Briggs Type Indicator (MBTI)* was developed by Katherine Briggs and her daughter Isabel Briggs Myers based on the initial work of Carl Gustav Jung. The system categorizes people into **16 distinct types** based on eight universal cognitive functions. It turned out that this type is mostly genetic (nature) and information processing in the brain (*the architecture of the brain*) remains the same throughout the life of an individual. This means that the brain processor type is fixed for any given individual. Speed and capacity may vary, but the way people learn and behave as well as general interests tend to be predictable.

I have used this particular theory and literature in comparing my work assignments at different stages of life and know first hand that personality type plays a significant role in job compatibility and satisfaction. My type is *INTP*, one of the 16 types and represents roughly 3 percent of the general population.

INTP | Designer Theorizer

Theme is designing and configuring. Talents lie in grasping the underlying principles of something and defining its essential qualities. Seek to define precisely and bring coherence to systems based on the pattern of organization that is naturally there. Easily notice inconsistencies. Enjoy elegant theories and models for their own sake and for use in solving technical and human problems. Interested in theorizing, analyzing and learning. Thrive on exploring, understanding, and explaining how the world works.

Lead Process | Introverted Thinking

Analyzing, categorizing, and evaluating according to principles.

They detach from interactions to analyze factors from various angles and leverage points. They are energized by analyzing challenging problems or technical puzzles. They approach a specific problem by applying principles and solve problems by quickly analyzing the situation for the most effective long-term efficient action to take. Analyzing may involve figuring out how a thing or a system works in order to fix or improve it. They check for logical consistencies, clear definitions, and core theoretical principles that afford a deep understanding. They search for accurate words to describe and explain things sparingly, getting to the essence of the issue or concept. They value this clarity as much as precision and judge most endeavors as missing the mark here. When presented with new ideas or data, they analyze and critique them to eliminate what doesn't fit with a principle. They tend to apply knowledge from their area of expertise when asked to evaluate other subject areas. They tend to be skilled at stepping back, staying objective, and not over-reacting. Life decisions are preferably based on objective principles.

Support Process | Extraverted Intuiting

Interpreting situations and relationships and picking up meanings and interconnections to other contexts.

Like a supportive parent, they are helpful by exploring a multitude of possible outcomes, options, and opportunities. When triggered by an idea or a problem to be solved, a flood of ideas may come to them. While these ideas are often interrelated and have a bearing on the situation, they often come from outside the immediate context. In fact, they will seek to relate isolated ideas to a larger context, and that often reframes a problem so a new solution is forthcoming. They enjoy looking for patterns and processes associated with how the universe functions, often using their imaginations to explore theoretical worlds. They enjoy interpreting the many possible meanings involved in a situation and generating hypotheses that can help uncover what is really going on, often making remarkable inferences. They strongly trust their imagination and ability to hypothesize to inform the universal nature and truth of their principles.

An Introduction to the Personality Type Code (Linda V. Berens, Dario Nardi, p42)

Curriculum Vitae

Education

Bachelor of Engineering (Computer Engineering with High Honor) with a minor concentration in Philosophy

Stevens Institute of Technology, New Jersey, USA

General Certificate of Education (Advanced Level)

Royal College, Colombo, Sri Lanka

Career Highlights

Founder | Software Consultant (October 2007 to date)

Lucid Consulting, Colombo, Sri Lanka

- Consulting Services.

Senior Consultant | Strategy (October 2020 to May 2021)

Platformer Cloud Pty Ltd, Melbourne, Australia

- Worked on product-market fit strategy for the Cloud Application Platform based on Kubernetes.
- Implemented the Objectives and Key Results (OKR) effort.
- Improved the Sales and Marketing process.

Software Product Architect (April 2017 to September 2017)

Engenuity (Pvt) Ltd, Colombo, Sri Lanka

- Managed the Software Engineering Services Division (SESD) at SLIIT.
- Analyzed requirements for the next Student Information Management System (SIMS).
- Introduced SCRUM based workflow to the development process.
- Evaluated and recommended software for internal operations.

Head of Software Development (January 2016 to June 2016)

Zeptolytics (Pvt) Ltd, Colombo, Sri Lanka

- Joined at the initiation of the startup company.
- Contributed to the initial idea generation and analysis towards an initial prototype.
- Evaluated product options and roadmap with the Founder.

Product Manager (May 2014 to April 2015)

hSenid Business Solutions, Colombo, Sri Lanka

- Managed the development of a Document Management System (DMS).
- Architected the product, working with the internal architects of hSenid Business Solutions.
- Designed the user interface.

Software Consultant (October 2007 to August 2013)

Cirrato Technologies, Stockholm, Sweden

- Worked remotely with the startup based in Stockholm, Sweden.
- Designed and implemented the multithreaded printer monitoring server in C++.
- Designed the user interface for multiple components of the product including the installer.
- Worked in an agile development environment using SCRUM.

Senior Software Engineer (July 2006 to August 2007)

Advanced Data Technologies (Pvt) Ltd, Colombo, Sri Lanka

- Developed software in C++ for a client in UK.

Project Manager (August 2004 to June 2005)

Interblocks Ltd, Colombo, Sri Lanka

- Coordinated implementation of electronic payment solutions for 4 local banks.
- Products included an ATM switch and a payment gateway.

Project Manager (May 2003 to May 2004)

Lanka On Line (Pvt) Ltd, Colombo, Sri Lanka

- Performed requirements analysis and design.
- Managed multiple projects.

Assistant Manager (April 2002 to September 2002)

John Keells Computer Services (Pvt) Ltd, Colombo, Sri Lanka

- Managed an internal prototype project for a commercial application.
- Participated in company-wide management meetings.

Project Manager (November 2000 to March 2002)

Global Software Labs (Pvt) Ltd, Colombo, Sri Lanka

- Managed remote development with US clients to identify requirements and deliver products.
- Analyzed requirements for an insurance application for Asian Alliance.
- Guided design sessions with technical staff.

Senior Programmer Analyst (July 1996 to September 2000)

Salomon Smith Barney, Inc., New York, USA

- Worked with Loans Desk traders to define requirements for the Loans Desk Trading System.
- Designed and implemented software in C++ and Perl for the Finance Desk Trading System.
- Supported firm-wide Sybase database administrators with core services and benchmarking.

Technical Consultant (September 1995 to June 1996)

Engineering Information, Inc., New Jersey, USA

- Created the corporate website working with the Vice President of Marketing.
- Streamlined restructuring of the Engineering Information Village using Perl.

Software Developer (January 1991 to November 1993)

Maidenform Inc., New Jersey, USA

- Developed software for the Automated Lace Cutting Machine.
- Worked with QuickBASIC and Borland C++.
- Designed algorithms for pattern analysis and recognition.
- Implemented integration with stepper motors and an electromagnetic press.

Pre-University Research Associate (April 1989 to August 1990)

Institute of Fundamental Studies, Kandy, Sri Lanka

- Worked as the System Operator of the Data General MV/7800 Eclipse mini computer.
- Translated study material from English to Sinhala for the School Science Program.

Social Work

Chairman, ICT Advisory and Management Committee (August 2011 to July 2016)

Royal College Union

- Guided the strategic direction of ICT related activities of the Royal College Union.
- Coordinated provision of lab facilities for the primary, middle school and college students.
- Organized an IT Day program to inspire students of grades 6 to 9.
- Launched a project to create an online syllabus and content for grades 6 to 9.

Member, Rugby Matches Organizing Committee (2011 to 2016)

Royal College Union

- Developed software for the Bradby Ticket Raffle and supervised the raffle.
- Helped organize the rugby encounters.

Secretary (2011 to 2013)

Royal College Group of '88

- Improved the database of contacts of the group to better facilitate communication among members.
- Helped organize the fellowship dinners and fundraising activities.