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ASHWIN ASOKAN

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EMPLOYMENT

Software Engineer	Amazon Inc.	July 2011 – July 2015

- Helped my team in mentoring new joiners; notable project participation being building a self-service solution for customer bank information management & data-driven improvements for legacy payment workflows.
- Amazon Information Security Community certified security reviewer; Reviewed five external facing web applications, two hosted in amazon.com, two in vendor central.amazon.com, one in payee central.com
- Helped team to rewrite a couple of payments related web applications improving vendor experience; average usability ratings from users on improved applications higher than usual by 2 points on 10 point scale; TP90 percentile (metric: for 90 percent of the total requests) increased by 20%.

Software Engineer, Intern	Exterro Inc.	Dec 2010 – Feb 2011

- Implemented user interface features for Fusion, an e-Discovery software suite for legal teams.

Tutor	University of Colorado, Boulder	Fall 2016

- Freshman Courses: Starting Computing, Starting Computing-Engineering Applications.

Web Programmer	University of Colorado, Boulder	Summer 2016

- Website publishing, bug fixing & maintenance activity. Worked mostly with PHP, HTML

EDUCATION

Graduate	University of Colorado, Boulder	Fall 2015 – Fall 2017

- M.S in Computer Science, Coursework: Theory of Computation; Machine learning; Natural language processing; Algorithms; Fundamentals of Programming languages; Program analysis; GPA: 3.7

Undergraduate	Government College of Technology, India	Fall 2007 – Spring 2011

- B.S in Information Technology, Coursework: Object Oriented Methodology; Computer Architecture; Database Systems; Data Structures and Algorithms; Computer Networks; Internetworking with TCP/IP; GPA: 8.1

TECHNICAL EXPERIENCE

Projects

- **Incremental Program Analysis** (2016). Applying incremental computational techniques to program analysis problems like taint analysis, data flow analysis, control flow analysis and type verification. Scala, Ocaml
- **Case Study on AVL Trees** (2016). AVL - A type of height balanced trees. It involves from scratch implementation and empirical analysis of the individual operations supported by AVL trees. Python
- **Case Study on Exception Handling** (2016). It's a survey work on how exception handling mechanisms evolved over the period along with programming languages.
- **Approaches to Improve Decision Reliability in Vehicular Ad-hoc Networks** (2010-2011). Applying probabilistic ideas: Bayesian inference, Dempster-Shafer theory to ephemeral networks to increase reliability in shared knowledge & its impact on decisions. Presented in national symposium Exebit 2010 in IIT, Chennai.

ADDITIONAL EXPERIENCE AND AWARDS

- **Sun certified Programmer for Java Standard edition 5.0** (2009) Scored 75%. 45 out of 60 questions correct.
- **Assisted freshman course "Programming Fundamentals"** (2010) Responsibilities include helping in course materials preparation, correcting answers, helping students in lab exercises; average rating of 4.5 out of 5.0.
- **Conducted Technical quiz & coding contest in Info Quest** (2011) Responsibilities include helping in problem compilation, proctoring tests, correcting answers, presenting final round on stage for the academic audience.
- **First & Third Prize in Technical Quiz & Coding contest** (2010) Awarded 1st & 3rd prize in intercollege Technical quiz & coding contest, out of 100 odd participants.

Languages and Technologies

- C;Java; Python; PHP; SQL; JavaScript; Web Services; Service oriented Architecture.