Apramey Raghavendra Bhat

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Education

Aug 2022 - Present

Aalto University
Master's Programme in Security and Cloud Computing – SECCLO (Erasmus Mundus Joint Master Degree)

2014 – 2018

SDM College of Engineering and Technology, Dharwad, India.
Bachelor of Engineering in Computer Science. (Grade: **9.03/10**)

Professional Experience

Dec 2020 - Aug 2022

Senior Software Engineer, First American Financial Corporation
Business Technology Solutions Team, Bengaluru, India
- Responsible for architecting and developing solutions for a data reconciliation project involving multi-product integrations
- **Application Security:**
  - Developed a generic authentication/authorization layer with Azure Active Directory, OAuth 2.0 and JWT
  - Resolved multiple application vulnerabilities such as Cross-site scripting XSS, External XML Entities, and SQL Injection etc.
  - Completed Veracode Application Security Professional exam with **94.7%** grade, which involved **35** courses [Transcript]
- **Full Stack Development & Cloud Solutions:**
  - Implemented a highly available and scalable Virtual Private Cloud environment involving AWS Step Functions, Lambda, AWS RDS, AWS SNS, API Gateway, Elastic Load Balancers abiding by pub/sub pattern and command pattern
  - Designed and Developed a suite of **50+** REST APIs and services with serverless and microservices architecture
  - Developed a Rule Engine based on Rete Algorithm for on-the-go reconciliation of financial data between multiple systems
  - Redesgined existing APIs that brings execution data, reducing **67%** of memory footprint
- Involved in architecture discussions and peer code reviews
- The data reconciliation project is anticipated to save around **$22M** per year
- **Tech Stack:** .Net Core, AWS Cloud Services (Lambda, SNS, SQS, S3, EC2, RDS, DynamoDB etc.), TIBCO EMS, OAuth 2.0

July 2018 - Dec 2020

Product Engineer, INSZoom (A Mitratech Company)
Product Development Team, Bengaluru, India
- **Application Security:**
  - Spearheaded a team of **4** to rewrite the user role management module of the product which involved changes in the authorization middleware that had reference in every webpage of the product
  - Integrated INSZoom with monitoring services like *Elmah* and *NewRelic*, to get the streamlined error and vulnerability reports
  - Identified and solved multiple **CWE** listed vulnerabilities found in the product
- **Full Stack Development & Cloud Solutions:**
  - Part of **20+** full stack revamp projects that involved reactive frontend framework and microservices architecture; Laid the groundwork for **x10** traffic scale into the newly designed product
  - Introduced lossless data compression on servers, that reduced hosted file size by **73%**, in turn increasing page load time
- The newly built INSZoom product increased the company revenue to **$25M** and the product went global with immigration case management workflows supporting **100+** countries
- Promoted to **Core Tech Team** where I was involved in various proof-of-concept projects, design discussions, articulating technical whitepapers and code reviews
- **Tech Stack:** .Net Core, .Net WebAPI, SQL, Vue.js, Vuex, Webpack, RabbitMQ, Bootstrap, Elastic Search, AWS S3, Azure

Feb 2018 - May 2018

Product Engineer - Intern, INSZoom (A Mitratech Company)
Product Development Team, Bengaluru, India
- Developed web pages for highest used USCIS Forms (the United States Citizenship and Immigration Services) for Forms module
- Worked on fixing vulnerabilities and bugs of various modules of the product, thereby increasing code quality and KPI of modules
- **Tech Stack:** ASP.Net MVC, SQL, .Net WebAPI, JavaScript, JQuery, Azure

Jan 2016

Android Development Intern, BoredBees Tech Solutions Pvt. Ltd.
Hubli, India
- Developed two native android applications (GRE Made Easy and Code Baba) and hosted them on Google Playstore
- **Tech Stack:** Java, XML, Android SDK, Firebase, Adobe Photoshop for UI Design

Relevant Skills

Frameworks	.Net Core, .Net Web API, Node.js, Flask, Vue.js, React, Bootstrap, Tailwind CSS, xUnit, Caffe
Database	Microsoft SQL Server, PostgreSQL, MongoDB, DynamoDB
Tools & Lib.	Github, Git, Dapper, Moq, Elastic Search, Axios, TIBCO EMS, RabbitMQ, Docker, OpenCV
Cloud	AWS Cloud Solutions (EC2, S3, SNS, SQS, Lambda, RDS, Step Functions, Cloudwatch), Google Cloud Platform (ComputeEngine, Firebase, Tensorflow), Terraform Scripting
Languages	C#, JavaScript, TypeScript, Python, Java, C

Extracurricular Activities & Achievements

Volunteering	• Volunteer at **Slush**, as well as a participant and volunteer at **Junction** [2022] • **Teaching Assistant** at **Google Developer Days – India** [2017] • **Student Facilitator** for **Google Applied CS Skills with Android** at SDMCET [Success Story] [2017-2018] • Graphic Designer and Co-ordinator for different contests at **Insignia** for a stretch of 4 years at SDMCET [2014 -2018] • **Internshala Student Partner** for SDMCET Dharwad. [2017-2018]
Trainings & Certifications	• Veracode certified Application Security Professional [Feb'21] • Architecting on AWS, AWS Technical Essentials, AWS Cloud Practitioner Essentials [Sep'21]
Awards	• **Top Performer Q1 2022** – First American Financial Corporation [2022] • **Zoom Star** – Top 3 engineers in INSZoom to get awarded by the CEO [2020] • **Zoom Miles Champion** (thrice) – Quarterly Award presented in INSZoom [2018-2020] • The undergraduation final year thesis project was selected as **Top 3000 Startups in India** by IIM Calcutta, India [2018]
Test Scores	• TOEFL iBT – **102/120** (R:22, L:29, S:23, W:28) [Issued on: May 17, 2021]
Languages	• English (Fluent) • Kannada, Hindi, Tulu (Native) • Finnish (Beginner)
References (Contact info available on request)	• Vinay Kalasannavar (Tech Lead, Mitratech) • Anil Pujeri (Engineering Manager, SenseHawk) • Dr. Shrihari Joshi (Professor, SDMCET)