THARSEKEN NAVAJEEVAYOKAN

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SUMMARY

- **Programming Languages**: Python, JavaScript, Java, C, C++, Swift, SQL
- **Frameworks and Technologies**: AWS (EC2, S3, ElasticSearch), React, Express, Docker, Pandas, Mongo, Git, Firebase, Django

EXPERIENCE

Software Engineering Intern   Jan – Apr '20
Intuit

- Developed TurboTax case escalation feature with SalesForce integration, mitigating 5.5% of erratic cases
- Introduced BI tool using NetworkX and MatPlotLib to visualize content network and cyclic dependancies
- Integrated Python migration pipeline in existing content environments, increasing data throughput by 57%
- Developed JavaScript service to generate tax summaries using financial data, used by Intuit tax specialists
- Created a content search engine utilizing AWS ElasticSearch helping TurboTax content authors effectively search through tax documentation, yielding a 12.3% improvement in click-rate

Full Stack Software Developer Intern   May – Aug '19
TimeSaved

- Designed and implemented microservices and REST-ful APIs for user management and core business logic
- Refactored server database logic to use data aggregation pipelines, improving data processing by 11%
- Developed a real-time group messaging platform across web and mobile clients using socket libraries
- Integrated infrastructure to increase user data collection by 37%, enabling Google Analytics data pipelining

Front End Software Developer Intern   Sep – Dec '18
EllisDon

- Maintained and created scalable React hook and lifecycle components used throughout web application
- Leveraged Redux state management to efficiently persist and modify state across the platform
- Assisted backend developers to optimize API endpoints, creating efficiencies by deprecating unused APIs

PROJECTS

Health Canada Product Monographs
JavaScript | MongoDB, Express, React, Node.js, AWS, Docker
- A MERN stack web platform deployed using Docker and AWS EC2 that allows regulatory firms to create, edit, and manage drug submissions for Health Canada
- Developed location-aware, auto-complete search of existing XML submissions using AWS ElasticSearch
- A complete CMS with metadata filtering, revisioning, and document version control
- Implemented OAuth 2.0-based user authentication strategies using PassportJS and JWT tokens

Mobile Messaging App
Swift | Google Firebase, ChameleonFramework
- Instant messaging app utilizing an MVC design structure to securely send/recieve multi-media messages
- Implemented Google Firebase NoSQL database and authentication service to securely store message info

Stock Predictor & Analyzer
Python | BeautifulSoup, Pandas, Numpy, SK-Learn
- A stock data scraper and classifier identifying when to buy, sell, or hold a stock given historic stock data
- Analyzed and manipulated data using libraries including Pandas, MatPlotLib, Numpy, and SK-Learn

EDUCATION

University of Waterloo   Sept '17 – Apr '22
Candidate for Honours Bachelor of Applied Science in Computer Engineering   GPA: 3.7 / 4