Jeremy Chiu

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github.com/jregchiu

Education

- **University of British Columbia** — Vancouver, Canada
  Bachelor of Computer Science; Cumulative Avg: 93.5% — *Expected Dec 2019*
- **Rotman School of Management, University of Toronto** — Toronto, Canada
  Bachelor of Commerce, Specialist in Finance and Economics; CGPA: 3.88/4.00 — *June 2016*

Experience

- **Senior Intern, Developer** — Toronto, Canada
  Canada Pension Plan Investment Board — *May 2019 - Aug 2019*
  - **AWS Migration**: Worked with team of 4 developers to migrate on-premise market risk application to serverless, event-driven cloud model. Wrote functionality to interact with S3 storage and DynamoDB tables, as well as new Lambda function to monitor business-critical infrastructure.
  - **Application Optimization**: Worked with team of 3 developers to support application process optimizations. Rewrote Oracle DB view definitions and reordered file upload process, resulting in an approximate time savings of 15 minutes on time-sensitive risk reporting process.
- **Casual Research Assistant & Software Developer** — Toronto, Canada
  Rotman School of Management — *May 2018 - Aug 2018*
  - **Rotman Interactive Trader REST API**: Wrote sample Python cross-border arbitrage, market-making, and market-routing trading and market data display clients to demonstrate API use.
  - **Introduction to Python**: Wrote introductory guide to Python for financial market data analysis, distributed to 60+ universities worldwide.
- **Contract Software Developer** — Toronto, Canada
  Rotman School of Management — *May 2017 - Aug 2017*
  - **Rotman Portfolio Manager Client & Server**: Updated two legacy C# applications operating on real-time financial market data, used by 20+ institutions and 2,000+ end users worldwide.
  - **Rotman Portfolio Manager Web App**: Updated legacy ASP.NET web application to provide web clients with same trading, charting, analytics, and admin functionality as desktop clients.

Projects

- **Call Autobot**: Used Python, Flask, Celery, RabbitMQ, and OAuth2 to schedule Github commit comments and request automated project grading via Github's REST API.
- **UBC CS Server Docker Image**: Used Docker to mimic the UBC CS department's openSUSE servers for local C and C++ assignment compilation and testing. Wrote a Docker build file and pre-built an image to share with other students.
- **Scrapy Web Spiders**: Used Python and Scrapy to scrape and parse course information from UBC's course calendar and horse race results from the Hong Kong Jockey Club to use in other personal projects.
- **UBC Course Scheduler**: Used Python, Google Optimization Tools, and Flask to generate possible UBC course schedules, given a list of courses and constraints on meeting times/days.

Technical Skills

- **Languages**: C, C++, C#, Java, Python, Ruby, SQL, LaTeX
- **Tools**: Atom, Visual Studio Code, Git, Github, Docker, Maven, Jenkins, Gradle
- **Testing**: JUnit, Mocha, Chai
- **Databases**: Microsoft SQL Server, SQLite, PostgreSQL, Oracle
- **Web**: Flask, Jekyll, Ruby on Rails, ASP.NET, HTML5, CSS, TypeScript
- **Cloud**: AWS, Terraform, Datadog