Juan Pablo Aguilar

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ABOUT

I'm an experienced software engineer who builds and maintains reliable backend systems that drive key business objectives. I currently work at Heroku (Salesforce) as a Lead Software Engineer, where I've contributed to a range of initiatives—from bringing new products to market and improving enterprise onboarding to addressing security issues and enhancing internal tools. My focus is always on practical, high-impact solutions, ensuring that systems remain stable and perform optimally even under heavy demand or unforeseen challenges.

EDUCATION

Analista en Ciencias de la Computación at FAMAF, Universidad Nacional de Córdoba.

3-year degree similar to **Computer Science BSc**. GPA: 9.06 out of 10.00.

Master of Science in Computer Science at University of Colorado Boulder.

2024 - Currently enrolled. GPA: 4.00.

EXPERIENCE

Lead Software Engineer (LMTS) - Heroku, Salesforce

Aug 2024 - Present

Heroku API, Platform API team:
- Participated in the development of the next generation of the Heroku platform, Fir.

Heroku Integration, ad hoc team:
- Delivered this new product to pilot from Heroku's engineering perspective.

Senior Software Engineer (SMTS) - Heroku, Salesforce

Jun 2017 - Aug 2024: 3 yrs 3 mos

Heroku API, Platform API team:
- Lead and implemented improvements to the process to onboard large customers to enterprise.
- Productionised critical internal operator tools.
- Delivered work to expand existing dyno types to more clients and introduce new ones.

Heroku API, API Foundations team:
- Designed and implemented mitigation to subdomain takeover attack.
- Migration of services into OpenTelemetry.
- Interviewed and mentored other engineers.
- Worked on mitigation of critical incidents as an on-call engineer.

Salesforce Functions, Functions API team:
- Contributed to both design and implementation of features for the Salesforce Functions product.
- Improved internal integration test suite and helped other teams migrate to it.

Heroku API, Operational Excellence team:
- Performed migration of internal services.
- Improved services reliability by analyzing dependencies and resources provisioning.
- Corrected logging anomalies.

Ruby on Rails Developer - hobbyDB corp

Sep 2017 - Jun 2021: 3 yrs 9 mos

Full-stack developer at a fast-paced environment mostly focused on building new product features.

Technologies: AWS, PostgreSQL, Ruby on Rails, JavaScript (AngularJS), HTML and CSS (bootstrap).

Software Developer - Ascentio Technologies S.A

Apr 2017 - Sep 2017: 6 mos

Development of ground segment software for the SAOCOM mission using Python and F# in two core sub-projects that generate scripts to be used by the satellites.

Other responsibilities: Performance improvement, testing and maintenance.

TECHNICAL SKILLS

- ❖ Main experience: Ruby, Ruby on Rails, Golang, JavaScript, F#, HTML, CSS.
- ❖ Familiar with: OCaml, Haskell, Python, C, C++.
- ❖ Test-driven development (TDD), Behavior-driven development (BDD).

- ❖ Background knowledge in solving algorithmic and mathematical problems.
- ❖ GNU/Linux API programming.
- ❖ Databases: PostgreSQL.
- ❖ AWS: EC2, RDS, S3, VPC, EBS, Route 53, IAM.
- ❖ Project management: Agile methodologies, SCRUM, Kanban.
- ❖ Other tools: Git, Github, Gitlab, Markdown, LaTeX, PivotalTracker, Jira, and Salesforce products.

LANGUAGES

- ❖ English: Full professional proficiency.
- ❖ Spanish: Native speaker.

EXTRACURRICULARS

Competitive Programming

2014 to 2016

Participated in ACM ICPC Training Camps and contests.

Android Development

2014 to 2016

Built apps for an elective course.

COMPUTER SCIENCE Bsc. TRANSCRIPT

Course	Grade	Course	Grade
Calculus I	9/10	Algorithms and Data Structures I	10/10
Introduction to Algorithms	10/10	Algebra	8/10
Discrete Mathematics I	10/10	Calculus II	9/10
Algorithms and Data Structures II	9/10	Operative Systems	9/10
Computer Organization	8/10	Probability and Statistics	8/10
Numerical Analysis	10/10	Introduction to Logic and Computation	9/10
Networks and Distributed Systems	8/10	Computer Architecture	10/10
Programming Paradigms	9/10	Databases	9/10
Discrete Mathematics II	8/10	Software Engineering I	10/10