Romain Letourneur, Ph.D.

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Professional experiences

Sep 2023 – today   🔖 **Engineering Manager** at Swan.

Led and mentored a team of 8 back-end engineers, providing coaching to enhance their professional growth and delivery of impactful features.

Oversaw merchant features including onboarding, checks, cards, and SDD acquiring. Implemented engineering standards through the engineering ladders framework and established team health monitoring based on Spotify's model. Led knowledge management initiatives across the engineering department by designing and implementing a tailored solution, then successfully migrating the entire knowledge codebase.

Dec 2022 – Sep 2023   🔖 **Daddy** at home.

Feb 2021 – Dec 2022   🔖 **Engineering Manager** at BackMarket.

Responsible for managing a multidisciplinary team of up to 10 engineers (front-end, back-end, QA engineers and QA analysts), coaching and technical mentoring to help them improve efficiency and grow in their roles. Setting individual goals, organizing quarterly and annual reviews. Coaching the team on working methods (introduction of agile methodologies in the team), to solve some difficulties the team is facing (ability to deliver what the team is committed to, predictability on future features the team will work on, communication problem with stakeholders, ...).
Responsible for the construction of the technical roadmap and the coconstruction of the product roadmap with the Product Manager: support the team and remove blockages so that the team reaches the set objective. Active participation in the recruitment process of the company.

Major projects.
• new version of the product page in line with the new global design of the company;
• worked on the web performance of the site (reduction of CLS, LCP, ...);
• implementing a new AB test solution, allowing the company to create AB tests without flickering (using CloudBees and Amplitude, with an implementation on the CloudFlare workers).

Professional experiences (continued)

Sep 2020 – Feb 2021   🔖   **Engineering Manager** at happn.

Ensure delivery of projects developed by the various features teams. Coordination with tech leads on internal organization, with technical product, data and marketing teams regarding delivery of features defined in the technical and product roadmaps. Participation in the design of these roadmaps.
Facilitator role: detection and removal of obstacles encountered by the technical team. Adjust and/or improve processes in place in the various feature teams. Set up 1:1 mentoring, coaching and monitoring of individual individual objectives. Technical team building, contribution to to recruitment processes. Support for team participation in *Lunch and learns*, meetups and conferences as speakers.

Jan 2018 – Sep 2020   🔖   **Lead back-end developer** at happn.

Role as technical leader, guarantor of overall back-end architecture and technical choices. Coaching and mentoring of team developers.
Synchronize with technical teams and the product regarding development of new features. Define and implement technical roadmap and delivery of this roadmap.

Tech stack. Java, Spring framework, ElasticSearch, Apache Cassandra, Redis, Google Cloud Platform, RabbitMQ, Google PubSub.

Jan 2016 – Jan 2018   🔖   **Back-end developer** at happn.

Design, development, testing and deployment of app functionalities with the iOS, Android, QA, Ops and product teams. Development of java microservices.

Tech stack. Java, Spring framework, ElasticSearch, Apache Cassandra, Redis, Google Cloud Platform, RabbitMQ, Google PubSub.

Education

2012 – 2015   🔖   **Ph.D., Computer Science.** University of Orleans
Thesis title: *Exact exponential algorithms for solving graph problems.*

2010 – 2012   🔖   **M.Sc. Computer Science.** University of Orleans
Informatique, Répartition et Aide à la Décision.

2007 – 2010   🔖   **B.Sc. Computer Science.** University of Orleans
Sciences et Technologies de l'Information et de la Communication.

Research Publications

PhD thesis

1. R. Letourneur, "Algorithmes exacts et exponentiels pour des problèmes de graphes. (exact exponential algorithms for solving graph problems summary)," Ph.D. dissertation, University of Orléans, France, 2015. 🔗 URL: https://tel.archives-ouvertes.fr/tel-01309228.

Journal Articles

1 M. Chapelle, M. Cochefert, J. Couturier, *et al.*, "Exact algorithms for weak roman domination," *Discret. Appl. Math.*, vol. 248, pp. 79–92, 2018. 🔗 DOI: `10.1016/J.DAM.2017.09.015`.

2 M. Chapelle, M. Cochefert, D. Kratsch, R. Letourneur, and M. Liedloff, "Exact exponential algorithms to find tropical connected sets of minimum size," *Theor. Comput. Sci.*, vol. 676, pp. 33–41, 2017. 🔗 DOI: `10.1016/J.TCS.2017.03.003`.

3 J. Couturier, R. Letourneur, and M. Liedloff, "On the number of minimal dominating sets on some graph classes," *Theor. Comput. Sci.*, vol. 562, pp. 634–642, 2015. 🔗 DOI: `10.1016/J.TCS.2014.11.006`.

Conference Proceedings

1 M. Chapelle, M. Cochefert, D. Kratsch, R. Letourneur, and M. Liedloff, "Exact exponential algorithms to find a tropical connected set of minimum size," in *Parameterized and Exact Computation - 9th International Symposium, IPEC 2014, Wroclaw, Poland, September 10-12, 2014. Revised Selected Papers*, M. Cygan and P. Heggernes, Eds., ser. Lecture Notes in Computer Science, vol. 8894, Springer, 2014, pp. 147–158. 🔗 DOI: `10.1007/978-3-319-13524-3\_13`.

Skills

Management	🔖 Hiring, personal objectives, coaching, mentoring.
Project management	🔖 Agile Scrum/Kanban methodologies, definition of ready and done, retrospectives
Coding	🔖 Java, Python, LaTeX, …
Databases & co	🔖 Apache Cassandra, ElasticSearch, PostgreSQL, MariaDB
Web Dev	🔖 Html, css, JavaScript, traefik, Hugo.
Misc.	🔖 Academic research, teaching

Miscellaneous

Associations

2014 – 2015	🔖 **President**, Association of PhD students from Orleans.
2010 – 2012	🔖 **Vice-President**, Association of developer students from Orleans.

Teaching and knowledge sharing

2012 – 2015	🔖 **Teacher**, in parallel of the PhD thesis, to developer students and from other domains.
2016 – 2018	🔖 **Sharing algorithmic basics**, lunch and learn sessions conducted in my company to tech and product audience.
2024	🔖 **Masterclasses**, ADA tech school: on the "design of REST APIs", and "how to transform and expression of need into code".

Hobbies

2022 – now	🔖 **Self-hosting**, on a bunch of Raspberry Pi: traefik, portainer, n8n, LibreChat, ollama, blogs, home assistant, grafana, matomo, node-red, greenbone, remark42, …

References

Available on Request