Patrik Hirvinen

Software oriented expert
generalist in the making

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Profiles

 hirvinen

 hirvinen

Skills

Web Development
Advanced to beginner

HTML, CSS, React, jQuery, Vanilla JS,
Drupal, AWS, Nginx, Apache

Machine Languages
Advanced to intermediate

Javascript, PHP, Bash, MySQL, Python,
Java, Perl, Go, C++, C

Mobile development
Beginner

Android, PWA

Infrastructure and tooling
Advanced to intermediate

Linux, Docker, Ansible, Vagrant, BIND,
OpenVPN, AWS, Git, Jenkins, Robot

Summary

I solve problems. "I don't know that field" or "not my responsibility" do not solve problems. I learn fast, I am skilled in understanding the whole situation, I drill into details as needed, leading to the right questions and better answers. My driving passion is to improve things. Whatever I do, I also think of how the things I see could be improved, from our tools, customer business processes, security, workflows, end user UX and anything in between.

Experience

Exove Oy   2018 - 2021
Full stack developer with backend focus

- I started by improving internal docs, saving days per new employee.
- Main project: a Drupal based web service for tenant applications, offers and rental agreements integrated with a tenant management ERP.
- I drove multiple improvements to project architecture, development practices and tooling despite being new to many key technologies.
- These increased ease, speed and reliability of new development as well as refactoring, helped catch and fix countless bugs early, and sped up the adoption of more modern practices and tools, not just in this project.
- I was asked for internal trainings about some of these, such as teaching Drupal 8 ways to veterans, despite being new to Drupal myself.
- Several of these improvements were based on me coming up with innovative solutions to robustly extend the capabilities of these systems beyond officially supported use cases.
- Some highlights: From global functions to type safe modern object oriented Drupal with Symfony autoloader for services, seamless full use of PHPStan based automatic static analysis with Docker / Vagrant based locals, automatic filtering of generated SOAP API code with phpro/soap-client with clean, type safe output, service self-validation at first post-deployment bootstrap, fixed critical security issues I discovered in the OpenID Connect module where I implemented support for strong authentication.
- I created a strongly typed self validating object model with a fail fast approach to data validation, reducing possibilities for bugs, helping catch them early, and preventing data corruption, without having to repeat such checks all over the business logic.
- I identified complex security and privacy issues in client vision and provided options combining technical and other solutions.
- I played a key part in planning significant architectural changes necessitated by change in requirements.

DB-Manager Oy   2012 - 2022
Member, later Chairman of the Board

- Reserve member in 2012, full member 2013, Chairman from 2017.
- Old software company, ca. 20 employees, ca. 2 M€ revenue p.a.
- In addition to normal duties, was instrumental in leading and coordinating the cooperation of tens of other stakeholders with partially aligned, yet partially conflicting interests in a complex legal dispute involving the banktrupcy of another company.

Information technology
AI, User Experience, Data Classification, Information Security, Infrastructure, Mobile

Societal
Decision Theory, Game Theory, Microeconomics, Behavioral Economics, Legislation Development

Free Time
Reading, Bicycling, Building, Fixing Things

Languages

Finnish
Native speaker

English
Excellent

Swedish
I read more than I speak

German
A little

Taxiagentit Oy   2010 - 2018
Recruiting, software and business development

- Driver in 2010, instructor after 4 months, joined management after 16 months, in a taxi driver staffing agency.
- I was hired to restart growth mainly through recruiting and selling more work shifts to the employees. While I retained the primary responsibility for recruiting and development of internal software, I pivoted my role to overall business development.
- I played a key role in almost doubling our sales over the next few years without needing to increase the size of the management team from 3-4, while employing over 300 drivers yearly and over 100 monthly, across several tens of diverse customer companies.
- While improving both employee experience and proficiency was key to this, it required me to take part in, and drive improvements to almost everything we did as a company, from improving, or creating new marketing content, contracts, IT systems, onboarding, internal and customer facing processes to data analysis, payroll, multi party conflict resolution, legal matters and much more.

Nemein Oy   2008 - 2009
Full stack developer

Development, customization, maintenance, tech support for Midgard CMS.

OOSIS Open Source Independent Studio Oy   2007 - 2008
Full stack developer

Customization and integration development for a SugarCRM fork.

Education

Helsinki University   2006 - 2010
Computer Science   Bachelor level studies, no degree

Helsinki University of Technology   2005 - 2007
Technical Physics and Mathematics   First year, no degree

Helsinki University   2003 - 2004
Computer Science   First year courses offered to high schoolers

Helsingin Matematiikkalukio   2001 - 2004
Matriculation examination   High School

Volunteering

Ropecon   2008 - 2010
Head of logistics with two others

Coordinated logistics for a weekend event with thousands of daily visitors.

HOAS   2006 - 2008
Tenant Association Chair and Chief of Security

Scout group Helsingin Metsänpojat   2005 - 2006
Member of the Board

Alter Ego, Helsinki University role playing game club   2008 - 2009
Board member responsible for freshman activities